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THE GRADUATE
DEPARTMENT OF
SOCIAL WORK AND
SOCIAL RESEARCH
1966 / 1968

RYN MAWR COLLEGE



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Graduate Department of
SOCIAL WORK
and
SOCIAL RESEARCH
of Bryn Mawr College

1966/1968



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Bulletin of the
Carola Woerishoffer
Graduate Department of
SOCIAL WORK
and
SOCIAL RESEARCH
of Bryn Mawr College

1966\1968

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815 New Gulph Road
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Correspondence regarding admission to the Graduate Department
of Social Work and Social Research should be addressed to the
Director of the Department, 815 New Gulph Road,
Bryn Mawr College, Bryn Mawr, Pennsylvania, 19010.

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The Carola Woerishoffer Graduate Department of Social Work and Social Research offers a basic two-year program leading to the degree of Master of Social Service, and an advanced program leading to the degree of Doctor of Philosophy.

The Master's degree program is based upon the premise that preparation for social work practice and research requires a core of knowledge as well as skill in the application of this knowledge. A coordinated curriculum of concurrent courses and field instruction is provided.

The Doctor of Philosophy program is planned to broaden the student's knowledge of social welfare in general, and, through intensive research, to deepen his knowledge in one field in particular. The curriculum is intended for full-time study, however, a few courses may be opened for part-time study to holders of a Master's degree from an accredited school of social work.

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Officers of the College

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KATHARINE ELIZABETH MCBRIDE, PH.D., LL.D., L.H.D., SC.D.
Office: Taylor Hall.

Dean of the Graduate School:

ELIZABETH READ FOSTER, PH.D.
Office: The Library.

Director, Graduate Department of Social Work and Social Research:

KATHERINE D. K. LOWER, PH.D.
Office: 815 New Gulph Road.

College Physician:

PEARL S. PITT, M.D.
Office: The Infirmary.

Librarian:

JANET MARGARET AGNEW, B.L.S., M.A.
Office: The Library.

Faculty and Teaching Staff

CAROLA WOERISHOFFER GRADUATE DEPARTMENT
of

SOCIAL WORK AND SOCIAL RESEARCH

KATHERINE D. K. LOWER, *Professor of Social Work and Social Research
and Director of the Department*

B.A., M.A., Ph.D., Wisconsin

BERNARD ROSS, *Professor of Social Work and Social Research*

A.B., Oregon; M.Sc. (Soc. Adm.), Pittsburgh; Ph.D., Michigan

JEAN HARING, *Associate Professor of Social Work and Social Research*

A.B., Albion; M.A., Ohio State; M.S.W., Michigan;

D.S.W., Western Reserve

PHILIP LICHTENBERG, *Associate Professor of Social Research*

B.S., M.A., Ph.D., Western Reserve

JEANNE C. POLLOCK, *Associate Professor of Social Work and
Social Research*

B.S., M.S.W., Pennsylvania

KURT REICHERT, *Associate Professor of Social Work and Social
Research*

B.A., Carleton; M.A., Chicago; Ph.D., Minnesota

MARTIN REIN, *Associate Professor of Social Work and Social Research*

B.A., Brooklyn; M.S.S.W., Columbia; Ph.D., Brandeis

MERLE BROBERG, *Assistant Professor of Social Work and Social Research*

B.A., University of Minnesota; M.S.S., Bryn Mawr

JANE C. KRONICK, *Assistant Professor of Social Research*

A.B., Barnard; M.S., Ph.D., Yale

WILLIAM W. VOSBURGH, *Assistant Professor of Social Research*

B.A., Yale; M.A., University of California at Los Angeles;
Ph.D., Yale

GRETA ZYBON, *Assistant Professor of Social Work and Social Research*

B.A., Syracuse; M.S.W., Buffalo; D.S.W., Western Reserve

PATRICIA M. BURLAND, *Lecturer in Social Work*
A.B., Smith; M.S.S., Bryn Mawr

RUTH O. STALLFORT, *Lecturer in Social Work*
B.S., M.S., Simmons

ELIZABETH L. PINNER, *Instructor in Social Work*
B.A., Bucknell; M.S.W., Pittsburgh; Ph.D., Bryn Mawr

EDMUND SHERMAN, *Instructor in Social Work*
B.A., M.S.S., Buffalo

ALBERT A. JOHNSON, *Field Instruction Consultant*
B.S., Wisconsin State University; M.S.W., Tulane University

EDNA ROBINSON KELLY, *Field Instruction Consultant*
A.B., Ohio State; M.S.S., Bryn Mawr

JOYCE LEWIS, *Field Instruction Consultant*
A.B., Gettysburg; M.S.S., Bryn Mawr

ALICE WHITING, *Field Instruction Consultant*
B.A., University of Iowa; M.S.W., University of Michigan

EMILY MCNEW WILLIAMS, *Field Instruction Consultant*
A.B., M.S.W., Indiana

NATHAN ZIRL, *Field Instruction Consultant*
B.A., Long Island University; M.S.W., Columbia University

RACHEL D. COX, PH.D., *Professor of Education and Psychology*

EUGENE V. SCHNEIDER, PH.D., *Professor of Sociology*

SAMUEL MENCHER, D.S.W., *Visiting Lecturer*

JOHN H. VANDERZELL, PH.D., *Special Lecturer in Political and
Governmental Processes*

History of the Department

The Graduate Department of Social Work and Social Research was opened in the fall of 1915 as a tribute to Carola Woerishoffer, a Bryn Mawr graduate of the Class of 1907. In announcing this new Department, the President of Bryn Mawr College, M. Carey Thomas, stated: "This Department will be known as the Carola Woerishoffer Graduate Department of Social Economy and Social Research in order to associate in a fitting and lasting way with Bryn Mawr College, to whose endowment she so generously contributed, the name of Carola Woerishoffer."

The Department opened with eight graduate students; no undergraduates were admitted. Under the initial plan, two-thirds of the student's time was given to the study of theory and statistics, the remaining third to "practical investigation," with a half year spent in residence in a social service institution or in a social welfare organization in Philadelphia or New York.

The course of study was planned for one, two, or three years, with three years required for the Ph.D. degree and one and two years for a certificate. The Master of Social Service degree replaced the two-year certificate in 1947.

The Graduate Department of Social Economy and Social Research was the first graduate program of social work education to be offered by a college or university. Its plan of "field work" and its inclusion of work in labor and industrial relations and community organization made it somewhat different from the other early schools of social work; it was nonetheless a program of study for social work. Under its first director, Dr. Susan M. Kingsbury, four fields of study were offered: Community Organization, Social Case Work, Industrial Relations, and Social and Industrial Investigation. Included among the organizations offering field work for students of the Department in these early days were: The Family Society of Philadelphia, The Children's Aid, the White Williams Foundation, the Big Sister Association, the Young Women's Christian Association, the Criminal Division of the Municipal Court of Philadelphia, the Social Services Department of the University of Pennsylvania Hospital, and various settlements.

In 1919 the Department became one of the six charter members of the American Association of Schools of Social Work. In this period following World War I, social work education was rapidly changing in response to the continuous expansion of social work into new settings. The curricula of the schools, including that of Bryn Mawr, responded to these changes in a variety of ways. At Bryn Mawr, preparation for social case work was expanded and additional courses in public welfare and social legislation were offered. The emphasis on research and social investigation which was central to the early curriculum of the Department continued.

Bryn Mawr had the first doctoral program in social work education, which was soon followed by the doctoral program at the School of Social Service Administration at the University of Chicago. Today twelve schools offer such programs.

By 1935 Bryn Mawr was one of twenty-nine schools belonging to the American Association of Schools of Social Work, of which twenty-five were in colleges or universities and only four were independent schools. The precedent set by Bryn Mawr in 1915 in establishing social work as graduate study in an institution of higher learning has now become a requirement for accreditation by the current accrediting body, the Council on Social Work Education, successor to the American Association of Schools of Social Work.

The Department at Bryn Mawr grew gradually from eight students in 1915 to forty-two full-time students in 1955, forty years later. Since 1955 it has more than doubled in size, currently having almost one hundred full-time students. A number of factors have contributed to this expansion: the acquisition of a separate building for the exclusive use of the Department, thus making it possible to admit a larger number of students; increased Federal support for education for social work, especially scholarship aid in the form of traineeships; and the continuing support of social agencies in the metropolitan area of Philadelphia in providing field instruction opportunities.

There are seventy Schools of Social Work accredited by the Council on Social Work Education in the United States and Canada, and new schools are being founded each year. Although many changes have taken place both at Bryn Mawr and in social work education, the vision of those responsible for the design of the Department at its founding has been proven by experience to have been remarkably correct.

The Department now has approximately six hundred living graduates, of whom three-fourths are holders of the M.S.S. degree. Thirty-two Ph.D. degrees have been awarded. At the time of its founding, the Department admitted only women; since the late 1930's men have been admitted, and during the last five years men have constituted an increasing percentage of the graduates.

Graduates of the Department are located in all regions of the United States and many foreign countries. Their present positions vary, of course, with the length of time since their graduation. They are substantially represented in family services, psychiatric services, child welfare, social research, and community organization and planning. Approximately forty-five per cent are executives, supervisors, or consultants. Recipients of the doctoral degree are chiefly in teaching and research positions. Over the course of its first fifty years the Department can claim that its graduates have contributed to leadership in both public and private social welfare programs.

Admission

THE GRADUATE DEPARTMENT OF SOCIAL WORK AND SOCIAL RESEARCH at Bryn Mawr College is open to qualified graduates in liberal arts from colleges or universities of acknowledged standing. Application for admission, to be made to the Director of the Department, should be accompanied by a copy of the student's full academic record.¹ Letters from the Dean and from two or more professors of the applicant's undergraduate college are required and will be requested by the Department.

A personal interview is usually arranged with a member of the faculty of the Department or with an appropriate person near the residence of an applicant living a considerable distance from Bryn Mawr. Admission to the Graduate School does not automatically qualify a student to become a candidate for an advanced degree. Students whose courses of study meet the requirements may, on application to the Graduate Committee, be enrolled as candidates for the degrees of Master of Social Service or Doctor of Philosophy.

Men as well as women are admitted to the Graduate School and are accepted as candidates for the degrees of Master of Social Service and Doctor of Philosophy.

Within ten days after official notice of admission to the Department of Social Work and Social Research, the enrollment or admission fee of \$20 is to be paid to the Comptroller of Bryn Mawr College. If the student withdraws before May 1st half the fee, namely \$10, will be refunded.

¹ Submission of the Miller Analogies Test is required as supplementary evidence of qualifications. The student will be given instructions concerning the test after his application has been received by the Department.

TRANSFER CREDIT

Transfer credit, amounting to one year of the program for the M.S.S., may be allowed for work done at other accredited schools. Such transfer credit will not be given until the candidate has completed a semester's work at Bryn Mawr. In each case transfer credit must be recommended by the Department.

For the Ph.D. degree, candidates must be in residence in the Graduate School at Bryn Mawr at least two years (or one year for Bryn Mawr graduates). Part of the work for the Ph.D. may be done at other institutions.

RECIPROCITY WITH THE UNIVERSITY OF PENNSYLVANIA

Courses at the University of Pennsylvania are available to graduate students at Bryn Mawr College. All full-time students and such part-time students as intend to become candidates for degrees are eligible. The number of courses which may be taken at the University is limited to the equivalent of one unit per year. Under the Reciprocal Plan the procedure for registration and payment of tuition fees is the same as for students enrolled wholly at Bryn Mawr. Students considering enrollment at the University should note that the academic year begins earlier than at Bryn Mawr. The University charges a small general fee for the use of the Library, a \$5.00 library deposit, which is refundable, and fees for lateness. Students who plan to take a course at the University should complete their Bryn Mawr registration and obtain their letters of introduction in time to register before the opening of the semester at the University.

Programs and Degrees

BRYN MAWR COLLEGE awards the degrees of Master of Social Service and Doctor of Philosophy in the Department of Social Work and Social Research.

THE DEGREE OF MASTER OF SOCIAL SERVICE

The program for the M.S.S. degree is designed to prepare graduates for Social Casework and Community Organization. Two academic years of full-time study are required. The degree represents the completion of a coordinated program of courses and field instruction. In the program in Social Casework, provision is made for field instruction in the following: Child Welfare, Family Welfare, Medical and Psychiatric Social Work, Vocational Rehabilitation, School Social Work, Mental Retardation and Corrections. In Community Organization field instruction is provided in Community Welfare Research and Planning, Neighborhood Organization, Urban Renewal, Intergroup Relations, Community Mental Health, and other settings.

Prerequisites. The prerequisite for the M.S.S. degree is an A.B. degree or its equivalent from a college or university of recognized standing in the United States, or a degree or certificate of the same standard from a foreign university. An undergraduate major in one of the social sciences or the humanities with some work in the social sciences is usually required, although in exceptional cases this requirement may be waived. There are no language requirements for the M.S.S. degree. All first-year M.S.S. students must pass an examination in statistical concepts given at the end of the non-credit course, Introduction to Statistical Concepts.

Program of Work. The basic first-year program is similar for all students except that the student selects either casework or community organization as the principal course in social work practice. The first-year courses are:

Social Casework I and II

or

Community Organization I and II

Personality Theory I and II

Social Theory I and II

Social Welfare Policy and Services I and II

Social Research

Introduction to Statistical Concepts (non-credit)

Field Instruction I and II

The courses in the second year are in part determined by the principal area of practice of the student:

Social Casework III and IV

or

Community Organization III and IV

Social Agency Administration

Social Issues and Social Policy

Social Group Work

Special Issues in Individual Functioning

Political and Governmental Processes

Research Seminar

Field Instruction III and IV

In addition second-year students who have had Casework I and II in the first year will take a one semester course in Community Organization in the second year; those who have had Community Organization I and II will take a one semester course in Casework.

Requirements for Degree. Candidates for the degree of Master of Social Service must have completed the two-year program of study consisting of a minimum of eighteen semester courses or the equivalent in full-year courses including field instruction. Each student's program of study may exceed this minimum. In addition, each candidate must prepare a Master's paper and pass a final examination which tests the ability to place their special fields in the general background of social work.

SPECIAL PART-TIME PROGRAM

It is possible for students for the Master's degree to extend the two-year program to three years. The usual pattern is to complete the first graduate year's requirements over a period of two years on a part-time basis, and to complete the second year's requirements during the third year on a full-time basis.

THE DEGREE OF DOCTOR OF PHILOSOPHY

The curriculum for the Ph.D. program provides a program of study from which a person may enter one of many careers, depending upon the changing needs and opportunities in the field and the interests and capabilities of the individual. Preparation for research and teaching are central to the goals of the program. Development of a variety of research competencies is encouraged; preparation for teaching in all areas of the social work curriculum, whether for graduate or undergraduate curricula, is also provided. Study for practice, whether in casework, community organization, administration, research or development of social policies and programs, emphasizes theoretical work.

The candidate for the Ph.D. degree should have ability of a high order, intellectual curiosity and critical judgment, independence, a broad general education, a Master's degree and experience in social work, and the determination needed to carry through an exacting program.

The program is planned to broaden the student's knowledge of social welfare in general and, through intensive research, to deepen his knowledge in one field in particular. The curriculum includes the following areas of study:

- Social Welfare
- Theory in Social Work Practice
- Social and Behavioral Sciences
- Social Research

Preparation in these four areas is implemented through required courses in each of the areas, accounting for about one-half of the program; electives pertinent to individual interests of students account for the other half. Electives may be taken in other departments within the College or at the University of Pennsylvania; and special experiences are directed toward specific career goals, including teaching assistantships and research assistantships. Candidates select a major field within one of the four areas of the curriculum and allied fields from the other areas. Qualified students may participate in various phases of research in social work under the direction of members of the faculty, engaged in a variety of research studies.

General Requirements. The general requirements for the Ph.D. degree are:

1. An undergraduate preparation in major and allied fields which is satisfactory to the Department.

2. A course of study requiring a minimum, which will usually be exceeded, of three full years of graduate work in major and allied fields; two of these years (or for graduates of Bryn Mawr College, one) must be spent in the Graduate School of Bryn Mawr College. Candidates are strongly advised to complete at least seven units of graduate work.

3. The acceptance of the student as a candidate by the Director of his or her work, by the Department and by the Graduate Committee.

4. A reading knowledge of French (or in special cases another modern foreign language approved by the Department) tested by a written examination in the translation of texts in the field of the major subject.

5. A working knowledge of statistics. The specific statistics requirement may be met either by passing a written examination or by taking courses in statistics.

6. A satisfactory Preliminary Examination. This examination is intended to test the candidate's general knowledge in the major and allied fields rather than familiarity with particular courses.

7. The preparation of a dissertation judged to be a contribution worthy of publication. The dissertation must represent independent investigation in the field covered by the major subject. It must contain new material, results or interpretations.

8. A satisfactory Final Oral Examination in the special field of the major subject in which the dissertation has been written.

9. The publication of the dissertation in whole or in part in accordance with the general regulations of the Graduate School.

SUMMER WORK

Bryn Mawr has no summer session. Occasionally, however, arrangements can be made for graduate students to continue their research during the summer under the supervision of members of the faculty. Such arrangements are made at the invitation of their instructors. The amount of credit for the work and the tuition fee to be charged depend upon the particular circumstances.

REGISTRATION

Every Graduate Student must register for courses at the office of the Dean of the Graduate School within two weeks after entering the College. Permission to make any change in registration must be received from the Dean of the Graduate School.

Only courses given in the Department of Social Work and Social Research are described in this Bulletin. Unless otherwise noted, courses are for *one* semester. Description of other courses may be found in the Calendar of the Graduate School.

GRADING

Two grades are given for graduate work, Satisfactory and Unsatisfactory. Occasionally extensions may be given for the completion of work. However, there will be no extension beyond November 1st of the year following that in which the work was due. After November 1st the work will be graded Unsatisfactory or the term Incomplete will remain permanently on the record.

EXCLUSIONS

The College reserves the right to exclude at any time students whose academic standing is unsatisfactory or whose conduct renders them undesirable members of the college community. In such cases fees due or paid in advance will not be refunded or remitted in whole or in part; fellowships and scholarships will be cancelled.

Courses of Study

PROGRAM FOR THE MASTER OF SOCIAL SERVICE

The Social Services

Social Welfare Policy and Services I

The organization and growth of social welfare as a major social institution is examined from an historical and philosophical perspective. The organization and distribution of social services is examined at the federal, state, and local levels. Attention is given to the influence of recent economic, social, and demographic trends upon social welfare policy.

Social Welfare Policy and Services II

The nature and scope of contemporary social problems such as poverty, dependency, delinquency, and urban deterioration are analyzed. Competing and alternatives theories concerning etiology and modes of intervention are considered. The impact of present welfare services on the reduction of social problems is examined.

Social Issues and Social Policy

Issues in contemporary social policies are examined by specialists in law, economics, public health, welfare and social work.

Human Behavior and the Social Environment

Personality Theory I

From personality theory fundamental ideas are presented which are considered to be especially pertinent to the various practices of social workers. The course leans heavily upon psychoanalytic theory. Emphasis is upon general principles connected with the determination of the shape and content of an individual's social functioning.

Personality Theory II

This course extends the work of Personality Theory I. Study in personality theories other than psychoanalytic theory is included here.

Social Theory I

This course introduces the student to the social and cultural context of the field of social welfare and the practice of social work. Starting with a general consideration of social organization and institutional arrangements of industrial society, it covers complex organizations, occupational groups, and role relationships and social stratification. Special attention is paid to the profession of social work as an example throughout.

Social Theory II

A continuation of Social Theory I, this course focuses upon client systems and social change. Starting from a review of concepts of norms and values, it develops critically a number of theories of deviant behavior, with special attention to the role of the group. It proceeds to social units which form social work client systems: the family, the small group, the community and traditional societies. The course concludes with a consideration of theories of social change.

Special Issues in Individual Functioning

Attention is paid to special topics in health, public health, genetics, psychology and psychiatry that are germane to the functioning of individuals.

Political and Governmental Processes

A course based on selected materials from political science designed to extend the student's understanding of functions and prerogatives of local, state and federal governments. A major focus is the contributions of political science as discipline and theory to community welfare planning and social action.

Psychoanalytic Concepts in Social Work Practice

This course is designed to increase knowledge and understanding of the dynamics of behavior. Stress is placed upon concepts and orientations from psychoanalytic ego psychology that have special pertinence to social work practice. (Not offered after 1966-67.)

Social Work Practice

Social Casework I

This is an introductory course focusing on the generic processes in social work as applied to casework. Emphasis is placed on the basic principles and concepts relevant to the casework relationship, study and diagnosis. Methods and processes are illustrated through the use of case material.

Social Casework II

Continuation of Social Casework I with further consideration of diagnostic formulation and differential emphasis of agencies in social casework treatment.

Social Casework III

An advanced casework course building on the basic study, diagnosis and treatment principles of the two preceding courses. Emphasis is on differential approaches to treatment as determined by differential psycho-social diagnosis. Cases from different fields of practice are used to give opportunity for examination of general principles as well as of specific requirements of different fields. Current issues and trends in social casework are discussed.

Social Casework IV

A continuation of Casework III in which students use cases from their own practice to examine the relationship between differential diagnosis and treatment, and the role and responsibilities of the social caseworker.

Introduction to Social Casework

This course is designed to introduce community organization students to the basic principles and practice of social casework.

Community Organization I

An introductory seminar on Community Organization practice in social work. Case materials, including student reports on field experiences, are utilized to examine values, concepts and principles of Community Organization. Emphasis is on the relationship of professional practice to the goals, structure and approaches of agencies concerned with community improvement and health and welfare planning. Historical and current trends in agencies are considered.

Community Organization II

A continuation of Community Organization I. The multiple roles and techniques used by the Community Organization practitioner are analyzed. Attention is given to emerging aspects of practice and to the application of various relevant theories in areas such as organization, social change and decision-making.

Community Organization III

A seminar on community welfare planning. Study of the functioning of health and welfare planning agencies, including analysis of structure and of the relation of physical and social planning. Current practices and issues concerned with auspices, financing, priorities, citizen participation, accountability and evaluation are considered. Community development is considered in relation to community organization.

Community Organization IV

A seminar on goals, values and theories reflected in practice, with emphasis on content related to field instruction placements of students enrolled. Generic and specific elements of community organization practice are identified in welfare planning and federated financing agencies, housing and urban renewal programs, public health and mental health settings, intergroup relations commissions, neighborhood agencies and other settings.

Introduction to Community Organization

This course is designed to familiarize casework students with the field and practice of community organization. Emphasis is placed on the contributions of casework practitioners and direct service agencies to community improvement and community welfare planning.

Social Group Work

Introduction to principles and practice of social group work as a basic social work method. Emphasis on the role and function of the professional person in relation to groups and their goals, the needs and interests of individual members, and the place of groups in the wider social setting of agency, neighborhood and community.

Administration of Social Agencies

A seminar concerned with the social agency as a social institution, its organization and administrative processes. Subjects discussed include policy formulation, decision-making, management functions, the role of the staff in administration, principles in personnel management, budgeting and public relations.

Field Instruction I and II

Application of basic social work principles and concepts in the field setting. Field instructors carry responsibility for facilitating the student's learning and integration of the total curriculum. Taken collaterally with Casework I and II or Community Organization I and II. Requirement: two days per week, first semester; three days per week, second semester.

Field Instruction III and IV

Taken collaterally with Casework III and IV, Community Organization III and IV. Requirement: three days per week, first and second semesters.

Social Research

Introduction to Statistical Concepts

An introduction to the vocabulary and general concepts of statistics. This is a non-credit course and meets one hour per week.

Social Research

An introduction to social research. Within the framework of the principles of scientific method, this course emphasizes the logic of research procedures and the design of proof. The course aims to provide basic skills in formulation of problems and critical analysis of existing research. Concentration upon methods relevant to social work.

Research Seminar (two semesters)

A Master's paper is required of all candidates for the M.S.S. degree. This may be an individual or a group project; it usually requires the collection, analysis and presentation of primary data. Work on group projects is coordinated in a non-credit research seminar which meets as needed.

PROGRAM FOR THE DOCTOR OF PHILOSOPHY

I SOCIAL WELFARE

History and Philosophy of Social Welfare I

Social welfare in perspective, with emphasis on social and economic changes as reflected in developments of social welfare programs. The development of social policy is examined in historical perspective. Special emphasis is given to the effects that different stages of industrial development have on the assumptions and character of welfare programs.

History and Philosophy of Social Welfare II

The course will examine social welfare programs which deal with income transfers, housing, public welfare, health, mental health, and poverty. Special attention will be given to the philosophical assumptions, historical developments and implementation of welfare legislation. Recurrent policy issues in a number of fields will be studied.

Community Mental Health

Attention is directed to an historical study of concern with mental health and mental hygiene and to current directions in community mental health services and programs. Study is made of varieties of mental health services, roles and practices in the past and present; the place of these in society; and the philosophical and ideological principles embodied in them.

II SOCIAL WORK PRACTICE

Advanced Casework Theory

A seminar in which the scientific base of casework methods and processes will be examined. Emphasis will be placed on the relationship between knowledge and current assumptions in practice; gaps in knowledge; and the present stage of theory building in social casework.

Theory in Community Organization

This seminar undertakes to provide a critical analysis of the issues and trends in the conceptualization of community organization and the current status of community organization theory. Applications to three arenas of practice are made: community development and neighborhood organization; interagency program planning, coordination and financing; and more comprehensive social planning in concert with physical and economic planning.

Social Administration

A seminar concerned with problems of organization, management and human relations in administration with special reference to the relation of administration to policy formulation and the functions in the decision-making process. The approach is analytical rather than descriptive or technical. Discussions and readings are based primarily on case studies drawn from various fields of administration. Participants will each prepare administrative case studies.

Supervision in Social Work

This course will relate basic learning theory to the supervisory method. Emphasis will be placed on identifying learning patterns in the student or staff supervisee and the appropriate selection of educational experiences.

This course is designed primarily but not exclusively for field instructors of students or supervisors of staff with limited supervisory experience. It may be taken for credit at the advanced level by meeting additional requirements.

III SOCIAL AND BEHAVIORAL SCIENCES

Personality Theories and Social Work Practice

Major theories of personality are examined according to their central concepts and the problems with which they are concerned. Comparison of theories is effected through the study of special issues bearing upon social work practice. Recent research efforts are used to show the direction the theories are taking.

Advanced Psychoanalytic Theory

Examination of psychoanalysis as a personality theory is made. Selected topics in psychoanalytic theory are studied, with special emphasis on psychoanalysis as ego psychology.

Social Change

An examination of major sociological theories of social change with special attention to social system analysis. Theories of planned change are examined through case studies.

Concepts of Mental Health

Exploration is made of the problems whose resolution depends upon an adequate theory of mental health, the scientific issues posed, the varieties of concepts developed, and intensive evaluation of selected theories of mental health. The social implications of each are traced.

Formal Organizations

Structure and process in large-scale organizations. Starting from basic theories of social organization, the course focuses upon those organizations which are planned to coordinate the efforts of large numbers of persons to accomplish specific goals. Leadership, organizational pathologies and the role of the individual are considered.

IV SOCIAL RESEARCH

Social Statistics

The objectives are to acquaint the student with the techniques and measures most commonly used in current research, to make the student aware of the assumptions and conditions under which statistical operations are clearly meaningful; and to develop discrimination in the application and interpretation of statistical tests and techniques.

Advanced Research

Study of contemporary methodological approaches to problems in social and behavioral research with application for social work. Intensive coverage of survey research design, case study and clinical method, and design of social experiments.

Current Research in Social Work

Review and critical evaluation of representative classic and contemporary research studies in social work and related fields with respect to the function of social work research, problem formulation and research methodology, and trends of social work research as related to practice and theory.

Demographic Analysis

Demographic characteristics of the United States and their analysis are studied with principal attention to the components of demographic change and their implications for social welfare. Students present original analyses of trends in contemporary population characteristics and their distribution in the United States.

Supervised Unit in Research

Upon invitation of a member of the Department, a student may take a supervised unit in research.

Among the faculty of the Department a variety of research interests and competencies is represented. Some of this faculty research has provided opportunities for research experience for doctoral students and will continue to do so. The areas of research in which members of the

faculty have been engaged includes: adoptions; community welfare planning; family life and economic dependency; mental health in public welfare; and evaluation of a family service agency.

Courses in Related Departments in the Graduate School

Courses in related departments of the Graduate School may be elected as part of the student's program with the permission of the Department. Examples of such courses are:

Economics

- Comparative Economic Systems
- The Development of Underdeveloped Areas

Education and Child Development

- Advanced Clinical Evaluation
- Problems of Child Development
- Elementary School Counseling
- Developmental Psychology
- Research and Measurement in Education
and Child Development
- Adolescent Development

Political Science

- Problems of Public Administration
- The World Community and Law

Psychology

- Human Learning and Thinking
- Comparative Psychology
- Personality
- Perception
- Social Psychology

Sociology

- Sociological Theory
- Social Institutions
- Industrial Sociology

Graduate courses at the University of Pennsylvania are also available for graduate students of Bryn Mawr College. For information regarding the reciprocal arrangement with the University, see the section under Admissions.

Field Instruction

FIELD INSTRUCTION is an integral part of the curriculum for the Master of Social Service degree. A placement is arranged for each student in an agency of good standards. Field Instruction is offered in casework and community organization. The purpose of the field experience is to provide the opportunity for the student to apply the knowledge gained in class and thus to deepen his knowledge and develop skill in its use. It is planned jointly by the agency and the Department in such a way as to give content, sequence and progression in learning. Field instruction runs concurrently with the academic program in order to insure an integration of the content of the two. Except in unusual circumstances the student is placed in a different agency during each year of field instruction.

In a typical program, field instruction for first-year students consists of approximately fourteen hours per week from October through January and twenty-one hours per week from February to May; for second-year students, it consists of twenty-one hours per week for each of the two semesters. Individual arrangements may occasionally be made on the basis of agency and student needs. Field instruction begins approximately ten days after the opening of the academic year.

Students are placed in a number of agencies in the Philadelphia metropolitan area. In most of these agencies, two or more students are placed with agency staff as field instructors. In other agencies a unit of students is under the direction of a field instructor appointed by the Department. Currently, such field instruction units provide field experience in:

Child Welfare

School Social Work

Psychiatric Social Work

Rehabilitation

Mental Retardation

Corrections

Students in casework are placed in the following agencies:

Associated Day Care Service, Inc.
Association for Jewish Children
Child Care Service of Delaware County
Child Study Center of Philadelphia
Child Study Institute of Bryn Mawr College
Children's Aid Society of Pennsylvania
Eastern Pennsylvania Psychiatric Institute, Adult Unit
Eastern Pennsylvania Psychiatric Institute, Children's Unit
Family Counselling Service of Northampton County
Family Service of Delaware County
Family Service of the Main Line Neighborhood
Family Service of Philadelphia
Hospital of the University of Pennsylvania, Department
of Social Service
Irving Schwartz Institute for Children and Youth
Jefferson Medical College Hospital, Social Service Department
Lankenau Hospital, Child Guidance Clinic
Montgomery County Mental Health Clinics, Inc.
Norristown State Hospital, Social Service Department
Pennsylvania Corrections Institution
Pennsylvania Hospital
Philadelphia General Hospital, Adult Psychiatric Clinic
Sleighton Farm School for Girls
Southern Home for Children
St. Christopher's Hospital, Child Psychiatry Clinic
St. Christopher's Hospital, Handicapped Children's Clinic
Temple University Hospital, Department of Social Work
Veterans Administration Hospital, Social Service Department,
Coatesville, Pennsylvania

Community organization field instruction settings include the following:

Citizens' Council on City Planning

Community Service Council of Delaware

Eastern State School and Hospital, Commonwealth of Pennsylvania

Friends Neighborhood Guild

Health and Welfare Council, Inc., Delaware County District

Health and Welfare Council, Inc., Philadelphia

Jewish Y's and Centers of Greater Philadelphia

Human Relations Commission, City of Philadelphia

The Lighthouse

Mental Health Association of Southeastern Pennsylvania

Office of the Development Coordinator of the City of Philadelphia

Office for Inner-City Development, Diocese of Wilmington

Office of Planning, Evaluation and Research, Department of Public Welfare, Commonwealth of Pennsylvania

Pennsylvania Hospital

Philadelphia Housing Authority

Redevelopment Authority of Philadelphia

United Fund of the Philadelphia Area

University Settlements

Urban League of Philadelphia

Fees and Residence

FEES

THE TUITION FEE for graduate students is \$1500 a year, payable one half early in the first semester and the other half early in the second semester.

For students registered for part-time work the fee for each course, seminar, or unit of supervised work is \$250 a semester.

Fees for auditors are the same as for students registered in courses for credit.

All students taking courses which require field instruction are charged a fee of \$10 a semester for each such course taken during the academic year. In addition, students are required to meet their traveling and incidental expenses while working in the field during the academic year and vacations.

The graduation fee for Doctors of Philosophy and Masters of Social Service is \$20.00.

SUMMARY OF EXPENSES FOR THE ACADEMIC YEAR

Tuition Fee	\$1500
Residence Fee at Graduate Center	
(including health service)	1000
Dispensary Fee (for non-resident students)	25
Fee for Field Instruction Manual, Research Manual	
and other materials	5
Field Instruction Fee	20
Graduation Fee	20
Expenses, Christmas and spring vacations,	
commuting to field instruction, books	variable

Students whose fees are not paid before November 15th the first semester and before March 15th in the second will not be permitted to continue in residence or to attend their classes. No reduction of the tuition fee will be made on account of absence, withdrawal, dismissal or for any other reason.

The Office of the Recorder will supply on request one transcript of the record of each graduate student free of charge. For additional transcripts a charge of \$1.00 each will be made.

The Graduate Center

RESIDENCE for forty-five women graduate students is provided in the Graduate Center, which lies at the north end of the campus about an eight-minute walk from the Library¹. There is a separate room for each student; meals and health service are included in the residence charge.

The bedrooms are fully furnished except for curtains. Bed linen, including blankets, is provided but students should bring their own towels. Because of College fire regulations, smoking is not permitted in the bedrooms.

Application for a room should be made as early as possible. A room-contract, which will be sent on request, must be signed and returned, with the registration fee of ten dollars, to the Dean of the Graduate School. The amount of this fee will be deducted from the residence fee. The registration fee will not be refunded under any circumstances. A student in residence or a new student who cancels her reservation after September 1st prevents some other student from obtaining accommodation. Therefore, unless a student sends notice of withdrawal in writing to the Dean of the Graduate School before September 1st, she is responsible for that portion of the residence charge which the College loses by reason of her withdrawal, whether she fails to occupy the room at all or vacates it during the year. Appropriate reduction or remission is made for that portion of the residence fee which represents reduced expense to the College for food; a further remission or reduction is made if the College is able to reassign the student's room to some other student not previously in residence. The student herself is not entitled to dispose of the room she leaves vacant. In cases of absence from the College extending over six weeks or more, owing to illness, there will be a proportionate reduction in the charge for the cost of food.

¹ Residence in the Graduate Center is sometimes not convenient for students in field instruction because of regulations concerning meals and vacation periods. Students are advised to consider these factors in choosing living accommodations.

The regular charge for residence (room, board and health service) for graduate students is \$1000 a year, payable one half early in the first semester and the other half early in the second semester.

Residence in the Graduate Center is for the academic year only — from the opening of college until Commencement Day. All college residence halls are closed during the Christmas vacation but accommodations in the neighborhood can usually be secured by graduate students who are required to continue their work. During the spring vacation one hall of residence is kept open and graduate students may occupy rooms in it at a fixed rate. Baggage will be accepted at the College (after Labor Day, September 5.) It should be sent prepaid, addressed to the Graduate Center.

There is no hall of residence for men. They and other non-resident students must make their own living arrangements. Lists of accommodations may be seen in the Comptroller's Office.

Fellowships and Scholarships

A VARIETY OF FINANCIAL RESOURCES is available for full-time students in the Department of Social Work and Social Research. The terms of the various awards differ and will be discussed with the applicant at the time of the admission interview. Both merit and need are factors to which consideration is given. The Department makes every effort to locate the financial aid best suited to the applicants' needs. Application for awards other than those of Bryn Mawr College may be made up to May 1st preceding the academic year for which they are desired.

Application for fellowships and scholarships in the award of Bryn Mawr College should be made to the Director of the Department of Social Work and Social Research and must be filed *not later than February 1st* preceding the academic year for which they are desired. Awards are announced each year on April 1st. Original papers and documents, sent by applicants in support of their applications, can be returned only if postage is enclosed for that purpose, or specific instructions are given for return by express. Letters from professors and instructors and other individuals are filed for reference.

All Fellows and Scholars must devote full time to graduate work, and pay tuition of \$1500 plus a field instruction fee of \$20. Women Scholars in their first year at Bryn Mawr must live at the Graduate Center. Others may elect to do so.

BRYN MAWR GENERAL FELLOWSHIPS AND SCHOLARSHIPS

The Department of Social Work offers the Carola Woerishoffer Fellowship, value \$3000, and one or two scholarships, value \$2100. The fellowship is open to women who have completed a full year of graduate work and is intended for a student in the doctoral program. Scholarships are open to women who hold the A.B. degree or its equivalent from a college or university of recognized standing.

The College has several scholarships of \$2100 which are open to men or women for study in any department.

Tuition scholarships, \$1500, are available to men and women whose homes are in the Philadelphia area, to men and women interested in preparation in the field of Community Organization, and to other qualified students.

UNITED STATES DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

The National Institute of Mental Health, the Vocational Rehabilitation Agency and the Children's Bureau of the United States Department of Health, Education and Welfare make available to the Department funds for traineeships which cover tuition and an annual stipend to be paid to the student. These traineeships vary with the year of study and the particular programs for which they are provided. The career goals of the student are an important factor in the awarding of these traineeships to individual students. For new students, application for such traineeships should be made at time of application for admission. No application form for these traineeships is necessary. Applicants should, however, state their career goals and their financial needs at the time of application. These may then be discussed during the admission interview.

DOCTORAL PROGRAM

The National Institute of Mental Health of the Public Health Service provides funds to the Department for advanced traineeships for students planning to specialize in some aspect of mental health. For applicants with a minimum of three years of experience, these traineeships provide tuition, a basic stipend of \$3600 and dependency allowance within specified limits.

The Children's Bureau provides advanced traineeships to students for leadership in the field of child welfare; for research, administration, social policy and teaching. These traineeships provide tuition, a basic stipend of \$3200 plus a dependency allowance and an initial one-way transportation allowance of up to \$100 for travel to the academic institution.

The Vocational Rehabilitation Administration, as well as the NIMH, provides pre-doctoral research fellowships, application for which must be made by the student directly to the agency. These fellowships provide varying amounts, depending upon the year of study and the number of dependents.

TEACHING ASSISTANTSHIP

Bryn Mawr College provides Teaching Assistantships with a stipend of \$2200 plus one-half tuition. The Assistant will be expected to carry out assignments in the teaching program limited to twenty hours a week or one-half time.

RESEARCH ASSISTANTSHIP

Susan M. Kingsbury Research Assistantship, a research assistantship of the value of \$2200 with remission of tuition, will be granted to an advanced student, preferably a candidate for the degree of Doctor of Philosophy, who from either training or experience has knowledge of methods and techniques in social research. The holder of the Assistantship will give one-half time to the research of the Department, and one-half time to study and is not permitted to hold any other paid position.

MASTER'S DEGREE PROGRAM

The National Institute of Mental Health provides funds to the Department for traineeships for students with career goals in mental health. These traineeships are \$1800 plus tuition for first year students and \$2000 plus tuition for second year students. These traineeships are available for psychiatric social work, school social work and for a special program in family and child welfare.

The Vocational Rehabilitation Administration makes available to the Department funds for a varying number of traineeships for students interested in careers in rehabilitation. These traineeships provide \$1800 plus tuition for first year students and \$2000 and tuition for second year students.

Traineeships are also awarded by the Department from funds made available by the Children's Bureau. Preference is given to first or sec-

ond-year students entering the field of social work with an interest in child welfare. These traineeships provide tuition and a stipend of \$2000. Traineeships are also available for work with mentally retarded children and their families. These provide tuition and a stipend of \$2500.

AGENCY FELLOWSHIPS AND SCHOLARSHIPS

Scholarships in social work practice are offered to qualified men and women by a variety of local agencies. They range up to \$2800. Awards depend upon acceptance by the Department and, in some instances, an agreement concerning one year's employment following graduation.

Agency awards are based upon financial need and professional promise for social work. Some of these awards are made by the Department.

GRANTS FROM THE COMMONWEALTH OF PENNSYLVANIA

The Commonwealth of Pennsylvania has several plans for financing social work education through different offices of the Department of Public Welfare, including Mental Health, Public Assistance and the Office for Children and Youth. A commitment to the state program through which the student is financed is required. Early application is desirable. The Department will assist the student in this at the time of the admission interview. Information may also be obtained from the Department of Public Welfare of the Commonwealth of Pennsylvania, Harrisburg, Pennsylvania.

GRADUATE PRIZES

The Susan B. Anthony Memorial Prize, value \$500, commemorating the great work of Susan B. Anthony for women, was founded by her friend, Anna Howard Shaw, and her niece, Lucy E. Anthony. It is offered every two years to a graduate student at Bryn Mawr College who has published or submitted in final form for publication the best study dealing with the industrial, social, economic or political position of women. The award is made by a committee of which the President of the College is chairman.

The Hertha Kraus Award, value \$50, is offered annually to a student of the Graduate Department of Social Work and Social Research. This

award was established by the Alumni Association of the Department in honor of Hertha Kraus, a member of the faculty of the Department for over twenty-five years. It is presented to the student who, in the opinion of a special committee established for this purpose, has written the best paper of the year on a subject relating to community organization, history of social welfare, international social welfare or social welfare administration.

The Susan M. Kingsbury Grant in Social Research, value \$300, is awarded every third year on the recommendation of the Director of the Graduate Department of Social Work and Social Research to advanced students, men and women, preferably candidates for the degree of Doctor of Philosophy.

Loan Funds

The Bertha Goldstein Memorial Loan Fund, established in honor of Bertha Goldstein, A.B. 1938 and M.A. 1939, is a revolving fund from which, upon recommendation of the Department of Social Work and Social Research, a limited number of loans, not exceeding \$150, may be made to graduate students of Social Work and Social Research. Loans are made without interest and must be repaid within five years.

The Ethel Rupert Memorial Loan Fund was established in 1951 by the friends of Ethel Rupert to commemorate her long interest in the preparation of personnel in public welfare. It is a revolving fund from which small loans are made to students in the Department of Social Work and Social Research, at the discretion of the Department.

The Rachel Pflaum Memorial Loan Fund, established in 1926 in memory of Rachel Pflaum, and transferred to Bryn Mawr College in 1951, is a revolving fund from which loans, not to exceed \$200, for tuition purposes may be made to students who are recommended by the Director of the Department of Social Work and Social Research.

The Carola Woerishoffer Club Fund is a small revolving fund from which loans may be made to students in the Department of Social Work and Social Research.

The Library

THE DEPARTMENT OF SOCIAL WORK AND SOCIAL RESEARCH has its own Library and Reading Room including a collection of books made available on permanent loan from the M. Carey Thomas Library as well as periodicals and pamphlet material in the field of social welfare.

The M. Carey Thomas Library now contains over 325,000 volumes. The Library has a good working collection in all fields in which graduate study is offered. The collection includes files and current numbers of about one thousand periodicals published in the United States and abroad.

The open shelf system provides the maximum of free access to the stacks so that almost all books except those in the Rare Book Room are directly available to the students. The Reference Room and Periodical Room provide ready access to standard works of reference.

Provision is made in the Quita Woodward Memorial Room for books for recreational reading. This collection, numbering more than two thousand volumes, includes books in literature, art, religion, and current affairs as well as many of the classics.

Other facilities available to graduate students are the rich resources in the libraries of the Philadelphia area. Through the services of the Union Library Catalogue, volumes in over 300 libraries within the area may be easily located. The Union Library Catalogue has a record of all books owned by the libraries of the region. Graduate students who wish to use other libraries for purposes of reference may secure letters of introduction from the Bryn Mawr librarian.

Health

CERTAIN HEALTH REQUIREMENTS must be met by all entering students. The medical examination blank provided by the College must be completed and filed at the time of application. After acceptance every student must also file a physician's certificate stating that he or she has been vaccinated against smallpox within one year of entrance, and that he or she exhibited a typical or immune reaction to this vaccination. Students who do not certify to vaccination are vaccinated at the time of their entrance and charged a fee of one dollar. There is no exception to this rule.

Resident students (those who live in the Graduate Center) must submit reports of recent medical and ophthalmological examinations signed by the appropriate physicians; evidence of immunization against diphtheria and tetanus, by toxoid, and against poliomyelitis within a year of entrance. A report of a Mantoux test is also required; if this is positive, the results of a chest X-ray must be submitted. The forms for these various certificates are supplied by the Office of the Dean of the Graduate School and are to be returned to the same office. If they have not been received by the time the student arrives in Bryn Mawr, the tests will be done here at the student's expense.

Any student with a health problem identified by her personal physician on the entering health form will be evaluated by the College Physician who will initiate such health supervision or consultation as is necessary.

The College maintains a modern 22-bed Infirmary with a full staff of physicians and nurses. The college physicians and psychiatrists may be consulted without charge by the students who have paid the dispensary fee. Specialists practicing in Bryn Mawr and Philadelphia serve as consulting physicians to the College. The student must meet the expense if consultation is necessary. The Infirmary is open when College is in session, and during the Spring vacation. It is closed during the Christmas vacation.

The residence charge paid by each resident graduate student entitles her to treatment in the college dispensary, and to care in the Infirmary for seven days (not necessarily consecutive) during the year, to attendance by the College physicians during this time and to nursing, provided her illness is not contagious and is not sufficiently serious to require the services of a special nurse. The fee for each day in the Infirmary after the seven-day period is \$12. In case of contagious disease special nursing is obligatory and the student must meet this expense.

All resident and non-resident graduate students of Bryn Mawr College are entitled to subscribe to the Students' Reimbursement Plan, which provides for a substantial proportion of hospital care and medical fees. The premium for this insurance is \$15 for a full year starting October 1st. Students should apply to the Comptroller of the College.

Non-resident Fellows and Scholars whose homes are not in the neighborhood are required to pay a non-resident dispensary fee of \$25, which entitles them to care and consultations by the College physicians and psychiatrists and to dispensary care. Other non-resident students may, if they so desire, pay this fee and receive the same benefits. *Since non-resident students cannot be given bed care in the Infirmary they are urged to take out medical insurance.*

The College reserves the right, if members of the family cannot be reached, to make decisions concerning emergency operations or other matters of health in regard to the students.

Student and Alumni Organizations

STUDENT ORGANIZATION OF THE DEPARTMENT OF SOCIAL WORK

All Students in the Department of Social Work and Social Research are eligible for membership in the Student Organization. The organization is concerned with the many phases of student life, such as social gatherings, special events, administration of student lounge, self-regulation of Reading Room and other student needs. The Student Organization and Faculty work together to promote the objectives of the Department.

ALUMNI ASSOCIATION OF THE DEPARTMENT

The Alumni Association of the Department was organized to further the interests of the Department and its alumni. Activities of the Association include a spring breakfast for students to be awarded the M.S.S. or the Ph.D.

Officers for 1966-67 are:

GOETZ MAYER, *President*

IRVING W. SHANDLER, *First Vice-President*

MRS. SUSAN FREEMAN, *Second Vice-President*

MISS FAITH ANGELL, *Recording Secretary*

MISS ELLIE STEINBERG, *Corresponding Secretary*

MRS. JOAN SALL GOLDFIELD, *Treasurer*

College Calendar

1966 / 1967

FIRST SEMESTER

1966

- | | | |
|-----------|-----|---|
| September | 14. | Graduate Center open to resident graduate students |
| | 19. | Work of the 82nd academic year begins |
| | 21. | Registration period for graduate students ends |
| | 29. | Field Instruction begins |
| November | 23. | Thanksgiving holiday begins after last class and ends
at 9 A.M. the following Monday |
| December | 16. | Christmas vacation begins at 12:45 P.M. |

1967

- | | | |
|---------|-----|--|
| January | 4. | Christmas vacation ends at 9 A.M. |
| | 10. | Last day of lectures |
| | 16. | College examinations begin |
| | 25. | Registration period for graduate students begins |

SECOND SEMESTER

- | | | |
|----------|-----|--|
| January | 30. | Work of the second semester begins |
| February | 1. | Registration period for graduate students ends |
| March | 23. | Spring vacation begins after last class |
| April | 3. | Spring vacation ends at 9 A.M. |
| May | 12. | Last day of lectures |
| | 15. | College examinations begin |
| | 26. | College examinations end |
| | 29. | Conferring of degrees and close of 82nd academic
year |

The calendar of dates to be observed by students in Social Work varies in some instances from the College Calendar. Students will be informed of these dates in September. Among the differences are the more limited vacation periods at Christmas and Easter for those students in field instruction. There is no break in field instruction for the examination period in January - February.

The College does not cancel regularly scheduled classes because of weather conditions.

How to Get to Bryn Mawr

Bryn Mawr College is located approximately eleven miles west of Philadelphia and nine miles east of Paoli.

By air: From the Philadelphia International Airport take the airport limousine to Philadelphia and the Paoli Local to Bryn Mawr or take a taxi directly to Bryn Mawr from the airport, a distance of 14 miles.

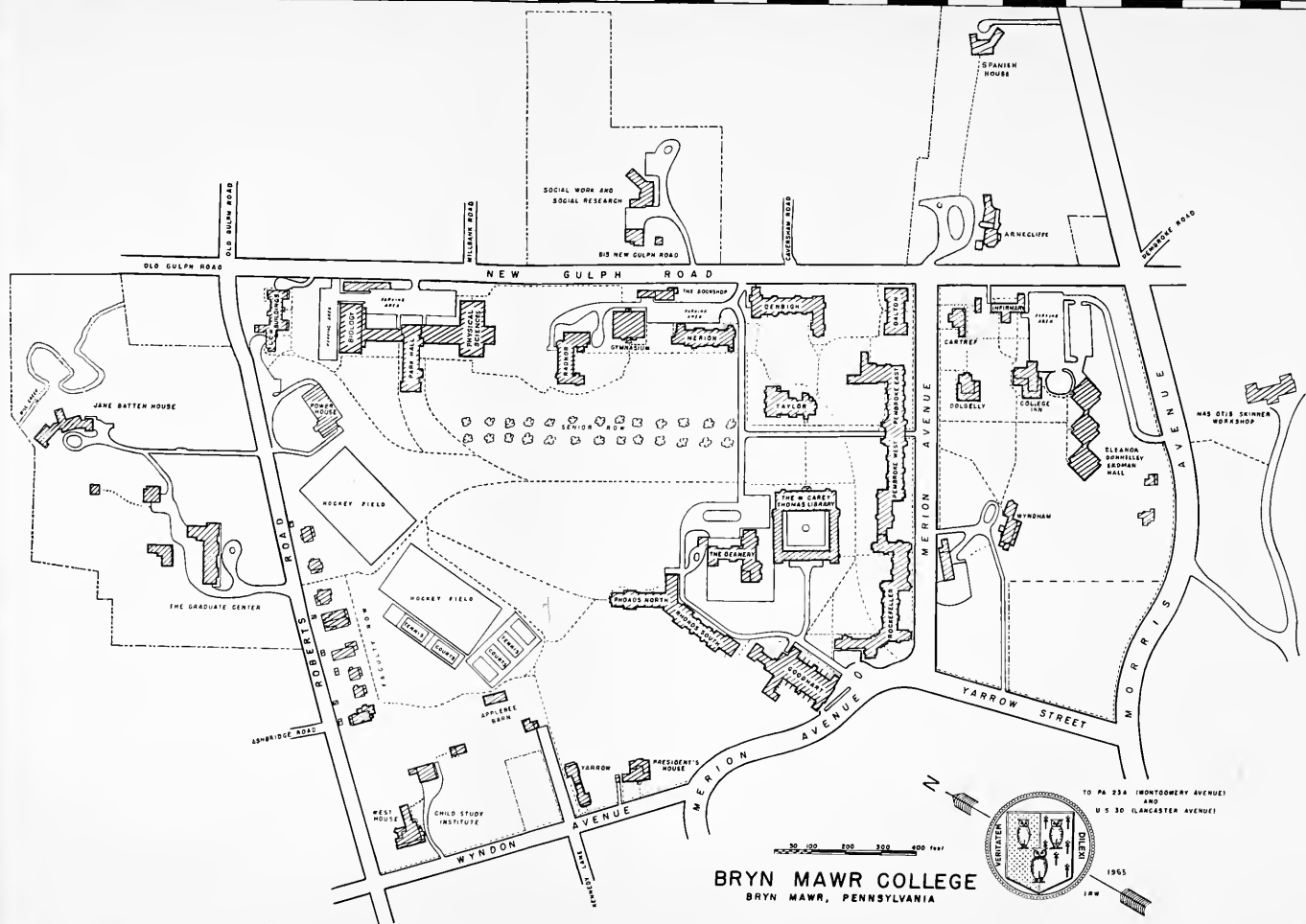
By automobile: From the east or west take U. S. 30 or the Pennsylvania Turnpike. From the Valley Forge Exit of the Turnpike, take the Schuylkill Expressway (Pa. #43-Interstate #76), turning right at the exit marked "Ardmore-Chester" on to Pa. #23, which is 3.5 miles east of the toll gate; continue into Alternate #23 (Montgomery Avenue) to the town of Bryn Mawr, a distance of 4 miles from the Expressway. Turn left at the traffic light at the intersection of Morris and Montgomery Avenues, and take Morris Avenue to the next traffic light. Turn left on to New Gulph Road.

Visitors may use the College parking lot, entering at Merion Gate, which is directly opposite 815 New Gulph Road.

By bus: All Greyhound buses arrive at the Philadelphia terminal at 17th and Market Streets, adjoining Suburban Station. Trailways buses arrive at 13th and Arch Streets, three blocks from Suburban Station. Take the Paoli Local from Suburban Station to Bryn Mawr.

By railroad: Connections from the east, north and south are best made from 30th Street Station, Philadelphia, on the Paoli Local of the Pennsylvania Railroad, which leaves the station every thirty minutes. Those coming by rail from the west are advised to leave the train at Paoli (rather than North Philadelphia) and take the Local from Paoli to Bryn Mawr.

To walk to the College from the Bryn Mawr Station, go one block to the traffic light at the intersection of Morris and Montgomery Avenues, cross Montgomery and continue on Morris to the next traffic light. Turn left on to New Gulph Road until reaching 815, which is on the right just beyond Caversham Road.





BRYN MAWR, PENNSYLVANIA

BRYN MAWR College Calendar

Graduate School 1967-8

Bryn Mawr College Calendar
The Graduate School

Issue for the Session of 1967-68

July 1967 *Volume LX Number 2*

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Graduate Work at Bryn Mawr

The essence of graduate education at Bryn Mawr is the close working relationship between the student and the mature scholar which a small academic community makes possible. Each student begins training on the level appropriate for his individual experience, and pursues a flexible program designed for his special requirements. Small seminars provide an opportunity to share research projects and to work under the direct supervision of the faculty.

Graduate training leading to the degrees of Master of Arts and Doctor of Philosophy is available in Anthropology, Biology, Chemistry, Classical and Near Eastern Archaeology, Economics, Education and Child Development, English, French, Geology, German, Greek, History, History of Art, Latin, Mathematics, Music, Philosophy, Physics, Political Science, Psychology, Russian, Sociology and Spanish. The degrees of Master of Social Service and Doctor of Philosophy are awarded by the Department of Social Work and Social Research.

Founded in 1885, the Bryn Mawr Graduate School was the first graduate school for women in the United States. Since 1931 both men and women have been admitted but it was only after 1965 that adequate funds were obtained to offer support for men comparable to that offered to women. Always small in relation to other graduate schools, Bryn Mawr has expanded gradually in response to the need for men and women well prepared for teaching and research. Today the student enrollment is between four and five hundred.

College Calendar 1967/68

The Graduate School

First Semester

1967

- Sept. 1 *Final date for filing completed applications for admission to the Graduate School.*
- Sept. 13 *Graduate Residence Center opens.
Registration period for graduate students begins.*
- Sept. 18 *Work of the 83rd Academic Year begins at 9 A.M.*
- Sept. 20 *Registration period for graduate students ends.*
- Oct. 21 *Italian, Spanish, Russian and Statistics examinations for M.A. and Ph.D. candidates.*
- Oct. 28 *French examinations for M.A. and Ph.D. candidates.*
- Nov. 4 *German examinations for M.A. and Ph.D. candidates.*
- Nov. 22 *Thanksgiving Holiday begins after last seminar.*
- Nov. 27 *Thanksgiving Holiday ends at 9 A.M.*
- Dec. 15 *Christmas vacation begins after last seminar*

1968

- Jan. 3 *Christmas vacation ends at 9 A.M.*
- Jan. 9 *Last day of seminars.*

- Jan. 12 *Final date for filing completed applications for admission for Semester II to the Graduate School.*
- Jan. 15 *Examination period begins.*
- Jan. 24 *Registration period for graduate students begins.
Examination period ends.*

Second Semester

- Jan. 29 *Work of the Second Semester begins at 9 A.M.*
- Jan. 31 *Registration period for graduate students ends.*
- Mar. 2 *Italian, Spanish, Russian and Statistics examinations for M.A. and Ph.D. candidates.*
- Mar. 9 *French examinations for M.A. and Ph.D. candidates.*
- Mar. 16 *German examinations for M.A. and Ph.D. candidates.*
- Mar. 21 *Spring vacation begins after last seminar.*
- April 1 *Spring vacation ends at 9 A.M.*
- April 10 *Ph.D. dissertations in all fields except experimental science and mathematics must be submitted to the Graduate Office.*
- May 1 *Ph.D. dissertations in experimental science and mathematics must be submitted to the Graduate Office.*
- May 10 *Last day of seminars.*
- May 13 *Examination period begins.*
- May 24 *Examination period ends.*
- May 27 *Conferring of degrees and close of 83rd academic year.
Graduate Residence Center closes.*

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Resources for Graduate Work at Bryn Mawr

The M. Carey Thomas Library and nine departmental libraries of Bryn Mawr College contain over 330,000 books and regularly receive more than 1200 periodicals as well as many scholarly series. The Rare Book Room houses the Marjorie Walter Goodhart Medieval Library of incunabula and the unusual Dillingham Collection of books on early Latin-American exploration in addition to other rare items. The Library has generous hours of opening throughout the year. Books are readily accessible on open stacks and in seminar rooms; individual carrels are available for some graduate students.

The main entry cards of the Haverford College Library are in the Bryn Mawr catalogue, thus bringing approximately 600,000 entries into one file. The Library is a member of the Union Catalogue of Pennsylvania, which locates nearly 7,000,000 volumes in the Philadelphia area and throughout the state, including the libraries of the American Philosophical Society, the Library Company of Philadelphia, the Historical Society of Pennsylvania, the Academy of Natural Sciences, the Free Library of Philadelphia, the Franklin Institute, the College of Physicians, the Rosenbach Foundation, the University of Pennsylvania and Temple University.

Bryn Mawr has interesting archaeological and ethnological materials which are used for study and research by graduate and undergraduate students. The Ella Riegel Museum of Classical Archaeology contains examples of the Greek and Roman arts, especially vases, and other pre-classical antiquities. It includes the classical Greek coins assembled by Elisabeth Washburn King and the Aline Abaecherli Boyce Collection of Roman Republican silver coins as well as the Densmore Curtis Collection presented by Clarissa Dryden. Professor Hetty Goldman has donated an extensive study collection of pottery samples from the excavations at Tarsus in Cilicia. Old World Paleolithic, Neolithic, Paleo-Indian, Eastern Woodland, Southwestern, Middle Mississippian, and Mexican antiquities are also represented at Bryn Mawr in addition to the Ward Canaday Collection of outstanding examples of most of the ceramic and textile traditions known for Peru.

The Geology Department has valuable materials for research including the mineral collection of George Vaux, Jr. and 25,000 maps on deposit from the United States Army Map Service.

RESOURCES FOR GRADUATE WORK

Students also use the resources of the Philadelphia area: the Philadelphia Museum of Art, the Pennsylvania Academy of Fine Arts, the Barnes Foundation, and the University Museum of the University of Pennsylvania, and they take advantage of the musical life of the city by attending the Philadelphia Orchestra and by playing or singing with local groups.

Laboratories, classrooms and libraries for Biology, Chemistry, Geology, Mathematics and Physics are located in the three buildings of the Science Center. At the Center are rooms designed for work with radioactive materials, for microphotography and for glassblowing; there is a machine shop with expert machinists in charge and a workshop available to graduate students. Laboratories and classrooms for Psychology are in Dalton Hall. In addition to the usual equipment, apparatus and instruments for particular research projects by faculty and graduate students have been acquired, in part, through the Plan for the Coordination of the Sciences, through research grants from industry and other private sources, and from government agencies.

A Computing Center with an IBM 1620 computer on the Haverford campus and auxiliary record equipment at Bryn Mawr is under joint sponsorship of Haverford and Bryn Mawr Colleges and is open to students and faculty of both colleges.

Admission to the Graduate School

Requirements

Students must be graduates of colleges or universities of acknowledged standing. For special requirements set by individual departments, see the departmental listings beginning on page 19.

Procedure

The applicant should write to the Dean of the Graduate School, Bryn Mawr College, Bryn Mawr, Pennsylvania 19010, for application forms and indicate the field of special interest. The application must be supported by official transcripts of the student's full academic record and by letters from the dean and two or more professors with whom he has done his major work. No application can be considered until all the necessary documents are on file in the Graduate Office. Students are accepted for either full-time or part-time work.

Graduate Record Examinations

Applicants are advised to take the Graduate Record Examination Aptitude Test as well as the Advanced Test in their fields of special interest. In certain departments these examinations are required, as indicated in the departmental listings. Inquiries concerning the Graduate Record Examination should be addressed to Graduate Record Examination, Educational Testing Service, Box 955, Princeton, New Jersey 08540 or to the Graduate Record Examination, Educational Testing Service, 1947 Center Street, Berkeley, California 94704.

Dates

Applications for admission must be complete by September 1. Students who wish to be considered for fellowships, scholarships, assistantships or tuition grants must complete their applications by February 15. The closing date for foreign applicants, other than Canadians, who wish financial aid is January 25. The testing dates for the Graduate Record Examination are October 28, December 9, January 20, February 24, April 27, July 13. Students must register for the tests well ahead of time.

Foreign Applicants: Students whose native language is not English must present evidence of proficiency in English. The TOEFL language test is preferred. Dates of administration are October 30, January 15, March 25, June 10. Students should make their own arrangements in advance to take this test.

Students who wish to be considered for scholarships must present completed applications including the results of the TOEFL or other language test by January 25. Therefore the language test must be taken in October. In order to take this test, the candidate should register for it in September. For information write to Test of English as a Foreign Language, Educational Testing Service, Princeton, New Jersey, U.S.A. 08540. For scholarships available to foreign students, see page 78.

Admission to Graduate Courses

Admission to graduate courses is under the jurisdiction of the various departments. Students whose preparation is inadequate may be required to complete appropriate undergraduate courses before being enrolled in a full graduate program.

Registration

All graduate students, after consultation with the chairmen of their departments, must register for courses at the Office of the Dean of the Graduate School each semester during the registration period listed in the College Academic Calendar. Changes in registration require the approval of the Dean.

Students wishing certification to outside agencies must complete a form to be signed also by the department chairman and deposited in the Office of the Dean of the Graduate School.

Degree Candidacy

Students become candidates for advanced degrees only after they have met departmental requirements and been approved by the Graduate Committee.

Program of Study

The program of study consists of selected seminars, courses or individual work under the close direction of members of the faculty. For the sake of convenience, this program is divided into academic units which are to be completed at Bryn Mawr College. Three academic units constitute a full year's program. An academic unit may be a seminar, an undergraduate course for graduate credit, independent study in preparation for the Preliminary Examination, or a supervised unit of work. Under the Reciprocal Plan, one academic unit a year may be taken at the University of Pennsylvania.

A minimum of three units is required for the degree of Master of Arts. For the degree of Doctor of Philosophy a minimum of six units is required. Of these units at least one must be a unit of supervised work on the dissertation.

The number of units is reduced to not less than four for those who have held academic appointments requiring half- to full-time teaching at Bryn Mawr College for two or more years. The Graduate Committee may, on recommendation of the departments, reduce the requirements for other students.

For the list of advanced undergraduate courses which with additional work may be accepted as graduate units subject to the approval of department chairmen and the Dean of the Graduate School, see the departmental offerings beginning on page 19.

In many departments, members of the faculty and graduate students meet from time to time in Journal Clubs or Colloquia to discuss current research or review recent publications in their field of study.

Courses at the University of Pennsylvania, Graduate School of Arts and Sciences, are available to Bryn Mawr graduate students. All full-time students and such part-time students as intend to become candidates for degrees are eligible. The number of courses which may be taken at the university is limited to the equivalent of one unit per year. Under the Reciprocal Plan the procedure for registration and payment of tuition fees is the same as for students enrolled wholly at Bryn Mawr, with the exception that the student will present a letter of introduction to the Dean of the Graduate School of the University of Pennsylvania when registering there. The university charges a small general fee for the use of the library, a \$5.00 library deposit, which is refundable, and fees for late registration. Since the University of Pennsylvania opens early in September, students coming to Bryn Mawr for the first time will not be able to take courses at Pennsylvania until the second semester.

Summer Work

Bryn Mawr has no summer session. Occasionally, at the invitation of members of the faculty, arrangements can be made for graduate students to continue research during the summer. The amount of credit for the work and the tuition fee to be charged depend upon the particular circumstances. Students should register for such work at the Graduate Office early in June.

Summer Institutes in France and Spain

Bryn Mawr College offers a summer program of intensive work in significant aspects of French culture at the *Institut d'Etudes francaises d'Avignon*. Certain courses carry graduate credit. For information write to Dr. Michel Guggenheim, Department of French, Bryn Mawr College.

For a similar summer program in aspects of Hispanic culture at the *Centro de Estudios Hispánicos* in Madrid write to Dr. Phyllis Turnbull, Department of Spanish, Bryn Mawr College.

Degree Requirements

Bryn Mawr College awards the degrees of Doctor of Philosophy, Master of Arts, and Master of Social Service.

The Degree of Doctor of Philosophy

The course of study is designed to prepare students for professional careers as scholars and teachers. Candidates should have ability of high order, intellectual curiosity, critical judgment, independence, a broad general education, fundamental training in the major and allied fields and the determination needed to carry through an exacting program.

The general requirements, to which should be added those of the various departments, are as follows:

1. Undergraduate preparation in major and allied fields which is satisfactory to the departments concerned and to the Graduate Committee.

2. A minimum of three full years of work beyond the A.B. degree in major and allied fields. For graduates of other colleges, two of these years must be spent in the Graduate School of Bryn Mawr College. However, this requirement may be reduced by the Graduate Committee for candidates who have held academic appointments at Bryn Mawr College and occasionally for others. One full year of graduate work at Bryn Mawr is required for students who hold the A.B. degree from Bryn Mawr College.

3. The recommendation of the student as a candidate by the director of the dissertation and the major department and the acceptance of the recommendation by the Graduate Committee. Application for candidacy, on a form to be obtained at the Graduate Office, may be made as early as the spring of the student's first year in the Graduate School provided that the student has completed two units of graduate work in residence.

4. A reading knowledge of modern foreign languages and a mastery of special techniques (such as Statistics) as required by the individual departments and tested by written examination. Students whose native language is not English must present evidence of proficiency in English. These examinations must be passed before the student takes the Preliminary Examination.

5. A satisfactory Preliminary Examination in the fields established for the candidate. This examination, consisting of several

written examinations, and at the option of the department, an oral examination, is intended to test the candidate's general knowledge of the major and allied fields rather than familiarity with particular courses.

6. The preparation of a dissertation worthy of publication. The dissertation must represent independent investigation in the field covered by the major subject and contain new material, results or interpretations.

7. A satisfactory Final Oral Examination in the special field of the major subject in which the dissertation has been written.

8. The publication of the dissertation in whole or in part. Micro-filming is accepted as a method of publication.

A special pamphlet describing regulations for the Ph.D. degree in detail will be given to applicants for candidacy.

The Degree of Master of Arts

The general requirements for the M.A. degree are as follows:

1. Undergraduate preparation in major and allied fields which is satisfactory to the departments concerned.

2. A knowledge of one modern foreign language and such additional foreign languages or special techniques as the individual departments may require. Examinations in languages and in the special techniques are held twice a year, in October and March. Students whose native language is not English must present evidence of proficiency in English.

3. The completion of a satisfactory program of work endorsed by the department and accepted by the Graduate Committee. Application for such endorsement must be submitted on appropriate forms to the Dean of the Graduate School not later than December 1 of the academic year in which the candidate wishes to take the degree. The program of study must include three units of work: (1) one seminar or graduate course; (2) a second seminar or supervised unit of graduate work; (3) a third seminar or an undergraduate course recommended by the major department. If undergraduate courses are included in this last unit, they must be supplemented by additional individual work. Only one such course may be offered for the M.A. degree. Under certain circumstances advanced undergraduate courses in science can be counted as seminars, subject to the approval of the department and the Dean of the Graduate School. Candidates may take three units of work in one major department, or two in a major department and one in an allied field. Candidates whose major department conducts a Journal Club or Colloquium are expected to include it in their program.

4. The preparation of a paper in a special field normally related to one of the seminars or units of graduate work in the candidate's

program. Candidates in residence shall submit this paper by the date set by the department. Candidates not in residence must submit the paper by May 1 of the academic year of the degree.

5. Each candidate, after all other requirements have been completed, must pass a final examination.

6. Work for the degree may be spread over several years which need not be in succession but must be included in a five-year period. Only courses taken at Bryn Mawr College or at the University of Pennsylvania under the Reciprocal Plan are credited for the degree.

The Degree of Master of Social Service

The program for the M.S.S. degree is designed to prepare graduates for Social Casework and Community Organization. The degree represents the completion of a coordinated program of courses and field instruction. In the program in social casework, provision is made for concentration in the following fields: Child Welfare, Family Welfare, Medical, Psychiatric and School Social Work. In Community Organization, preparation is provided for Community Welfare Planning, Neighborhood Organization, Urban Renewal and Intergroup Relations.

For a copy of the *Bulletin* describing the M.S.S. and Ph.D. programs, write to the Director of the Department of Social Work and Social Research, 815 New Gulph Road, Bryn Mawr, Pennsylvania 19010.

Graduate Seminars and Courses Graduate Program 1967-1968

The graduate courses and seminars offered vary from year to year. Undergraduate courses which may be offered for graduate credit are listed by number. The letter "a", following a number, indicates a half-course given in the first semester; the letter "b", following a number, indicates a half-course given in the second semester; the letter "c", following a number, indicates a half-course given two hours a week throughout the year. Brackets designate courses not given in the current year.

Anthropology

Professor: Frederica de Laguna PHD *Chairman*

Assistant Professors: Herbert L. Alexander, Jr. PHD
Jane C. Goodale PHD¹

Lecturer in Anthropology: Lilo Stern PHD

Visiting Lecturer: William Davenport PHD

Special Requirements for Graduate Work
(for the general requirements see pages 16-18)

Prerequisites. A good undergraduate preparation in Anthropology or a closely related discipline is desirable. Students whose undergraduate training is not entirely adequate will be required to take such undergraduate courses as may seem necessary.

Allied Subjects. Allied subjects include Biology, Classical and Near Eastern Archaeology, Economics, English Literature, Geology, History, History of Art, Linguistics, Philosophy, Political Science, Psychology and Sociology.

¹ On leave, 1967-8.

BRYN MAWR COLLEGE

Language Requirement. Candidates for the M.A. or Ph.D. must offer two modern languages.

Program and Examination for the M.A. The program consists of three units of work in seminars or advanced undergraduate courses arranged for seminar credit. One of these may be in an allied subject. The Final Examination may consist of one four-hour written paper, or one three-hour written paper and an oral examination of one hour.

Program and Examinations for the Ph.D. All students are expected to take the equivalent of at least one year's graduate work at another institution approved by the Department. All Ph.D. candidates will be expected to become familiar with the principles of at least four of the following: (1) Prehistory or Archaeology of some major area, (2) Physical Anthropology and Human Paleontology, (3) Ethnology, (4) Linguistics, (5) History of Anthropology and Anthropological Theory. These requirements may be satisfied by courses approved by the Department, or competence tested by examination.

The Preliminary Examination for candidates for the Ph.D. will consist of four three-hour written papers and an oral examination of one hour. One of these examinations may be in an allied field.

SEMINARS AND GRADUATE COURSES

Depending upon the needs of the students, seminars selected from among the following will be offered either as full year courses (1 unit of credit), or as semester courses ($\frac{1}{2}$ unit of credit). Other topics may be offered as desirable.

<i>Ethnographic Methods</i>	<i>Culture Change</i>
<i>The American Indian</i>	<i>American Archaeology</i>
<i>Oceania and Australia</i>	<i>Human Evolution and Prehistory</i>
<i>Social Organization</i>	<i>History of Anthropology</i>
<i>Primitive Religion</i>	

In addition, courses at the University of Pennsylvania are available under the terms of the Reciprocal Plan (see page 14).

SELECTED UNDERGRADUATE COURSES

- 203a. *Primitive Society*: Miss Stern.
- 203b. *Primitive Culture*: Miss Stern.
- 208. *Human Evolution and Prehistory*: Mr Alexander.
- 301a. *Cultural Theory*: Miss de Laguna.
- 303b. *Peoples and Cultures of Africa*: Miss Stern.

Biology

Professors: L. Joe Berry PHD¹ *Chairman*

Robert L. Conner PHD

Jane M. Oppenheimer PHD

Assistant Professors: Audrey Barnett PHD

William G. Hopkins PHD

Special Requirements for Graduate Work

(for the general requirements, see pages 16-18)

Prerequisites. An undergraduate major in Biology, Zoology or Botany, including courses in General and Organic Chemistry. Some preparation in Mathematics and Physics is desirable. Students with majors in other subjects may be admitted but will be required to make up any deficiencies in their preparation in Biology before being admitted to graduate courses. All applicants should submit scores in the Aptitude Test and Advanced Test of the Graduate Record Examinations.

Major and Allied Subjects: Candidates for the M.A. and Ph.D. degrees may specialize in Biochemistry, Developmental Biology, Genetics, Microbiology or Plant Physiology, but must take work from areas not chosen for specialization. Allied subjects may also be selected from fields in Chemistry and Physics and in special cases, with the approval of the Graduate Committee, from other related fields.

Language Requirements. Candidates for the M.A. degree should offer French or German. Candidates for the Ph.D. degree should offer French and German. Other languages may be accepted by special permission of the Department and the Graduate Committee.

Program and Examination for the M.A. One full year, or its equivalent, of course work in seminars or advanced undergraduate courses arranged for seminar credit and a written report on a piece of experimental work carried out under the direction of a member of the Department. Qualified students may substitute a unit of supervised research for formal course work. While the work may be completed in one year by full-time students, it may be extended over two or more years and students with incomplete preparation may find such extension necessary. The Final Examination consists of a three-hour written examination covering the areas of study, and an oral examination concentrating particularly on the interpretation and significance of the experimental problem.

¹ On leave, semester I, 1967-68.

BRYN MAWR COLLEGE

Examinations for the Ph.D. The Preliminary Examination for the Ph.D. consists of three written examinations, each of four hours' duration, and an oral examination of one to two hours. These examinations will cover the areas included in the course work in the major and allied fields. After the subject of the dissertation has been decided, the student will meet with the faculty of the Department to outline and discuss the subject and the proposed plan of research. The Final Examination is oral, covering the subject of the dissertation in relation to general biological problems.

SEMINARS AND GRADUATE COURSES

Seminars are offered in the following fields. The topics considered in any year are selected in accordance with the needs and desires of the students enrolled.

Mr Conner: *Biochemistry (offered in 1968-9).*

Selected topics in intermediary metabolism.

Biochemical techniques.

Cellular Physiology.

Mr Hopkins: *Physiology of Plants (offered in 1968-9).*

Photomorphogenesis.

Chemical control of plant growth.

Selected topics of plant metabolism.

Miss Barnett: *Selected Topics in Advanced Genetics (offered in 1967-8)*

Mutation and Recombination.

Gene action.

Mr Berry: *Microbiology and Physiology (offered in 1967-8)*

Control of biological reactions.

Mechanisms of defense against infectious diseases.

Miss Oppenheimer: *Developmental Biology (offered in 1967-8)*

Factors controlling growth and differentiation.

Nucleic acids and proteins in development.

Morphogenesis in invertebrates and vertebrates.

Embryonic induction.

ADVANCED UNDERGRADUATE COURSES

Any advanced undergraduate course may be taken for graduate credit, provided that some additional work either in reading or experimentation is arranged with the instructor.

[351. *Advanced Genetics*: Miss Barnett.]

352. *Advanced Plant Physiology*: Mr Hopkins.

353. *Biochemistry*: Mr Conner.

354. *Microbiology and Immunology*: Mr Berry.

[355. *Developmental Biology*: Miss Oppenheimer.]

Chemistry

Professors: Ernst Berliner PHD *Chairman*

George L. Zimmerman PHD

Associate Professors: Jay Martin Anderson PHD

Frank B. Mallory PHD¹

Joseph Varimbi PHD

Lecturer: Frances Bondhus Berliner PHD

Fields of Study and Research: The primary aim of the instruction of graduate students in the Department of Chemistry is to provide a sound background in modern chemistry and to prepare men and women for a professional career in productive scholarship, research, and teaching in chemistry. Courses and seminars are offered to enable the students to acquire a command of their chosen fields, in addition to a sufficiently broad general background so that they will be prepared for the variety of assignments in chemistry teaching or research which they may later encounter. Thesis research is the major part of the training. Research training is centered around a variety of investigations carried out by the members of the faculty. Currently there are active research programs involving both faculty and students in the following areas of organic, inorganic, physical, and theoretical chemistry: kinetics of electrophilic substitution and addition, relative reactivities of polynuclear aromatic systems, isotope effects, the photochemical conversion of stilbenes to phenanthrenes, the chemistry of benzofurazan oxide, the use of nuclear magnetic resonance spectroscopy for structural organic problems, reactions in liquid ammonia and other non-aqueous solvents, photochemical cis-trans isomerizations, ultraviolet and vacuum ultraviolet absorption studies of hydrated transition metal ions, nuclear magnetic resonance as applied to nuclear relaxation and chemical exchange studies.

Under the Plan for the Coordination of the Sciences there are special opportunities for research and training in such interrelated areas as geochemistry, biochemistry, chemical physics.

Special Requirements for Graduate Work

(for the general requirements, see pages 16-18)

Prerequisites: An undergraduate preparation in chemistry including courses in inorganic, analytical, organic and physical chemistry, college physics and mathematics (calculus).

¹ On leave, semester II, 1967-8.

Major and Allied Subjects. Students may specialize in either Organic, Inorganic or Physical Chemistry. The allied subject for the Ph.D. may be chosen from the fields of Biochemistry, Mathematics, Physics, Inorganic Geology and a branch of Chemistry different from that of the major subject. Other combinations may be accepted with the approval of the Graduate Committee and on the recommendation of the Department.

Language Requirements. Candidates for the M.A. must offer German, French or Russian. Candidates for the Ph.D. must offer German, and either French or Russian.

Program and Examination for the M.A. Students who are candidates for the M.A. will usually offer one seminar in their special field, another seminar or advanced undergraduate course in Chemistry or an allied field and one unit of research. This unit consists of an experimental investigation carried out under the direction of a member of the Department. The Final Examination consists of a four-hour written examination, or a three-hour written and one-hour oral examination.

Program and Examinations for the Ph.D. Ph.D. students will normally be expected to devote a large proportion of their time to experimental or theoretical research, carried out under the direction of a member of the Department. They will usually take all seminars offered in their special fields during their stay at Bryn Mawr, in addition to such courses as will give them a broad background in Chemistry. The Preliminary Examination will normally be taken after the experimental work is well advanced. It consists of two four-hour written examinations, one of which is in the major subject and one in the minor subject, and a third, oral examination, which constitutes a defense of a number of research proposals previously submitted by the student. Four such proposals are required, two of which may be related to the student's thesis. For students who offer a minor subject in a department other than Chemistry, equivalent arrangements will be made after consultation with the Department. The Final Examination (oral) is devoted to the subject matter of the student's dissertation.

SEMINARS AND GRADUATE COURSES

In order to meet the needs of the students and to offer them as wide a selection of topics as possible, the seminars are arranged in such a way that each one is usually given at least once within a three-year period. The topics listed below are given in one-semester seminars, counting one-half unit of credit each. Ordinarily four seminars are offered each year. Individual programs are flexible, and the contents of the seminars are likely to vary with the research interests of the students and the current research activities of the faculty. The semi-

nars listed below are illustrative of those that have been offered in recent years.

Inorganic Chemistry: Mr Varimbi.

Recent Methods in Organic Synthesis: Mr Mallory.

Structure and Physical Properties of Organic Compounds: Mr Berliner.

Spectral Applications in Current Organic Chemistry: Mr Mallory.

Physical Organic Chemistry: Mr Berliner.

Natural Products: Mrs Berliner.

Physical Organic Aspects of Aromatic Chemistry: Mr Berliner.

Organic Photochemistry: Mr Mallory.

Chemistry of Heterocyclic Compounds: Mrs Berliner.

Introduction to Chemical Physics: Mr Zimmerman.

Introduction to Molecular Spectroscopy: Mr Anderson.

Intermediate Quantum Mechanics: Mr Anderson.

Photochemistry: Mr Zimmerman.

Theory of Electrolytic Solutions: Mr Varimbi.

Applications of Group Theory in Quantum Mechanics: Mr Zimmerman.

Nuclear Magnetic Resonance: Mr Anderson.

Statistical Thermodynamics: Mr Varimbi.

Biochemistry: See under Biology.

Colloquium. All members of the Department and the graduate students meet every week for a presentation of current research in chemistry, usually by outside speakers.

SELECTED UNDERGRADUATE COURSES

The following advanced undergraduate courses may be taken for graduate credit:

301b. *Advanced Inorganic Chemistry*: Mr Varimbi.

302. *Advanced Organic Chemistry*: Mr Mallory, Mr Berliner.

303a. *Quantum Mechanics of Atoms and Molecules*:
Mr Anderson.

303b. *Spectroscopy and Thermodynamics*: Mr Zimmerman.

304a. *Applied Mathematics for Chemists*: Mr Anderson.

Classical and Near Eastern Archaeology

Professor: Machteld Johanna Mellink PHD *Chairman*

Associate Professor: Brunilde S. Ridgway PHD¹

Assistant Professor: Kyle M. Phillips, Jr. PHD

Instructor: Nancy Bookidis PHD

Special Requirements for Graduate Work

(for the general requirements, see pages 16-18)

Prerequisites. An undergraduate major in Archaeology or at least two courses in Archaeology combined with a major in Greek, Latin, Ancient History, or History of Art. It is expected that students of Classical and Near Eastern Archaeology will have a basic knowledge of Greek and Latin. Students with incomplete preparation in Archaeology will be advised to take selected undergraduate courses during their first year in Graduate School.

Allied Subjects. Greek, Linear B, Latin, Akkadian, Hebrew, Hittite, Egyptian; History of Art, Ancient History, Anthropology, a science related to the archaeological program of the candidate.

Language Requirements. For the M.A. and Ph.D., a good reading knowledge of German and French. For the Ph.D., a reading knowledge of Greek or a Near Eastern ancient language.

Program and Examination for the M.A. Three units of work in Archaeology or in Archaeology and an allied field. The final examination is written (three hours) and oral (one hour).

Program and Examinations for the Ph.D. The students spend the first two years in residence, participating in seminars and preparing for the Preliminary Examination. The third year is usually spent at the American School of Classical Studies in Athens or at another archaeological research center abroad. Museums in Europe and the Near East are visited during this year, and participation in excavations is arranged when possible (see below).

The Preliminary Examination, normally taken at the end of three years of graduate work, consists of four four-hour papers in selected fields such as Greek and Roman sculpture, architecture, monumental painting, Greek vase-painting, numismatics, Aegean prehistory, prehistory of Western Asia, Mesopotamian art and archaeology, the

¹ On leave, semester II, 1967-8.

archaeology of Anatolia or Syria. One of the papers may be written in an allied field. The Final Examination covers the field of the dissertation.

Excavations. The Department currently sponsors two excavation projects:

- I. An investigation of the Bronze Age habitation of ancient Lycia, in progress since 1963 at the third millennium B.C. site of Karatas near Elmali.* Advanced graduate students participate in this excavation which is organized as a field seminar during the fall term with full graduate credit. The program provides instruction in excavation and field techniques and gives an opportunity to visit other sites, excavations and museums in Turkey, with discussion of the problems of the Bronze Age in the Aegean and Anatolia. The final publication will be prepared on the basis of the joint field reports by the participants.
- II. The Etruscan project, started in 1966, is the excavation of the archaic site of Murlo near Siena, organized in cooperation with the Archaeological Museum in Florence. The work takes place during the summer and offers qualified graduate and undergraduate students training in excavation techniques while participating in the study of a townsite and necropolis of the sixth century B.C.†

Cooperation with the University of Pennsylvania. Attention is drawn to the courses offered by the Departments of Classical Archaeology, Anthropology, History of Art, Oriental Studies, and Biblical Archaeology at the University of Pennsylvania. Under the Reciprocal Plan, students may register for a unit of work at the University or pursue research at the University Museum.

SEMINARS AND GRADUATE COURSES

The following seminars are offered in 1967-8:

Miss Mellink:

Field Seminar in Aegean and Anatolian Archaeology
(Excavations in Lycia, semester I).
Greek Art and the Orient (semester II).

Mrs Ridgway:

Greek Funerary Sculpture (semester I).

Mr Phillips:

Problems of Greek and Roman Mosaics (semesters I-II).

* cf. *American Journal of Archaeology* 68 (1964) 269-278; 69 (1965) 241-251; 70 (1966) 245-257.

† cf. *American Journal of Archaeology* 71 (1967) 133-139.

ADVANCED UNDERGRADUATE COURSES

- 201b. *Egypt and Mesopotamia*: Miss Mellink.
203a. *Greek Sculpture*: Mrs Ridgway.
301a. *Greek Vase-Painting*: Mr Phillips.
301b. *Ancient Architecture*: Miss Bookidis.
[303. *Anatolian and Syrian Archaeology*: Miss Mellink.]
304a. *Ancient Monumental Painting*: Mr Phillips.

Comparative Philology and Linguistics

Professor of Spanish: Joaquín González Muela *D en FL*
Associate Professor of English: Robert B. Burlin PHD
Assistant Professor of German: Nancy C. Dorian PHD
Instructor of Linguistics: Alison Anderson PHD

Comparative Philology may be offered as an allied subject for the Ph.D. but not as a major subject. For courses in Philology, see statements under the Departments of English, French, German and Spanish.

Economics

Professors: Morton S. Baratz PHD *Chairman*
Joshua C. Hubbard PHD
Assistant Professors: Richard B. Du Boff PHD
George I. Treyz AB

Special Requirements for Graduate Work
(for the general requirements, see pages 16-18)

Prerequisites. An undergraduate major in Economics, with work in such related fields as History and Political Science. Applicants with

majors in other disciplines will be admitted but may first be required to pass a qualifying examination, consisting of a three-hour paper in theoretical economics at the level maintained for final-year undergraduates in Economics at Bryn Mawr College. Students whose undergraduate training in Economics is not entirely adequate may be required to take such undergraduate courses as the Department thinks necessary. Under certain conditions, such work may receive graduate credit.

Allied Subjects. Most subjects in the other social sciences, and in History and Philosophy, are acceptable as allied work. Mathematics, Statistics, and Accounting are not only acceptable as allies but are necessary to advanced work in Economics. Courses in these subjects, when not offered at Bryn Mawr, may be taken at the University of Pennsylvania under the Reciprocal Plan.

Language Requirements. For the M.A. one modern language and either advanced mathematics or econometric analysis. For the Ph.D. two modern languages.

Admission to the Ph.D. Program. Students holding only the A.B. degree or its equivalent in Economics must apply initially for M.A. candidacy. In exceptional cases, M.A. candidates will be permitted, at the end of not less than three semesters of formal course work and research at Bryn Mawr, to proceed directly toward the Ph.D.

Students holding a Master's degree in Economics from other institutions may be required to pass a qualifying examination before admission to the Graduate School. Those who have been admitted to the Ph.D. program are eligible to apply for candidacy for the Ph.D. when they have completed two full units of graduate work at Bryn Mawr.

Program of Study for the M.A. It is expected that the work for the M.A. degree will require not less than one calendar year of graduate study. All candidates for the M.A. degree must complete three units of formal course work (seminars, courses, supervised units) prior to submitting the M.A. research paper. One of these units must be in Economic Theory, one in Econometrics and one in the student's special field of interest (e.g., Economic Development, Money and Banking, Economic History). Course examinations in each of these three fields must be passed before the candidate presents the research paper. After acceptance of the paper a final examination, consisting of a written paper and a brief oral examination, must be passed.

Program of Study for the Ph.D. Candidates for the Ph.D. will take as much formal course work as is necessary to prepare them for the Ph.D. examinations. The Preliminary Examination will consist of four three-hour written papers and an oral examination; one of the written papers will be in Economic Theory and one in Economic History; the other two papers will be in fields related to the candi-

date's major interest. The Final Oral, taken after the dissertation has been accepted, will be devoted to the subject matter of the dissertation.

SEMINARS AND GRADUATE COURSES

Mr Baratz:

Microeconomic Theory.
Industrial Organization and Markets.
Corporate Enterprise and Public Policy.
Economics of Underdevelopment.

Mr Du Boff:

Comparative Economic Systems.
Economic Development: the United States and Western Europe.
International Economics.

Mr Hubbard:

Macroeconomic Theory.
Fiscal-Monetary Theory and Policy.
Theories and Problems of Economic Change.

Mr Treyz:

Statistics and Econometrics.

Education and Child Development

President of the College: Katharine Elizabeth McBride PHD

Professor and Director,

Child Study Institute: Rachel Dunaway Cox PHD

Associate Professor and

Director, Thorne School: Susan E. Maxfield MS

Assistant Professor: Ethel W. Maw PHD

Lecturers: Emmy A. Pepitone PHD

Faye P. Soffen MSW

Special Requirements for Graduate Work

(for the general requirements, see pages 16-18)

The program prepares students for college teaching and research in Educational Psychology and Child Development, for child guidance,

for school psychology, school counseling, for teaching in the schools and for early childhood education. The training is carried on in a setting of service to public and laboratory schools and the community at large. Classes, seminars and staff conferences provide opportunity for students from several related disciplines to develop competence in the team approach to the children's specialties in education, psychology and guidance agencies. Trends in physical, intellectual and emotional growth from infancy to maturity are stressed.

Work leading to the certificate to teach in the public secondary school is open to students who present some preparation in Psychology and are qualified in a subject matter field. Foundation work for teaching in the elementary school is available. A sequence leading to specialization in elementary school counseling with supervised field work in selected schools is open to qualified students.

Prerequisites. An undergraduate preparation in the liberal arts which must include work in General Psychology. Students whose undergraduate training in Psychology is not adequate will be required to take such undergraduate courses as seem necessary. Applicants for admission are asked to submit scores of the Graduate Record Examination in Verbal and Mathematical aptitudes.

Major and Allied Subjects. Candidates for advanced degrees are expected to become competent in several different areas: child development, learning, measurement and guidance, secondary education, the school as a social institution, and history and philosophy of education. For the M.A., two fields are required. For the Ph.D., five fields must be presented. The allied subject may be chosen from the fields of Psychology, Sociology, Anthropology or Philosophy.

Requirements in Languages and Statistics. French and German for the Ph.D.; candidates for the M.A. must pass an examination in French or German and demonstrate a working knowledge of statistics. Candidates for the Ph.D. will be required to demonstrate a working knowledge of statistics. The statistics requirement for both degrees may be satisfied by passing an approved course or an examination.

Program and Examination for the M.A. Candidates will normally offer three units of graduate work in Education, although one of three may be taken in an allied field. A paper embodying the results of independent research is required. The Final Examination consists of two three-hour written examinations, one in each field offered and a one-hour oral examination on the M.A. paper.

Examinations for the Ph.D. The Preliminary Examination consists of four written papers. One of the written papers may be in the allied field. The Final Examination is in the field of the dissertation.

The Phebe Anna Thorne School and The Child Study Institute: The Phebe Anna Thorne School is maintained by the Department as a

laboratory nursery school for normal children where students may observe and assist in the program for three- and four-year olds. For those preparing for teaching, medical work with children, child welfare or guidance, the school provides opportunity for direct experience with early child development. Students preparing for early childhood education spend substantial blocks of time in the school.

The Department also operates in Bryn Mawr the Child Study Institute, a mental health center where problems of learning and behavior are studied and remedial measures planned and carried out for parents and children. The service is given by a staff of qualified specialists in child psychiatry, psychology, social case work and remedial teaching. Advanced students participate at various levels of responsibility. Referrals from the neurological and pediatric departments of the Bryn Mawr Hospital, from physicians, social agencies and families give students the opportunity for acquaintance with a diversity of clinical material.

A separate building on the college grounds houses the Thorne School and the Institute with rooms equipped for nursery school teaching and for individual examination of pupils, remedial teaching, play therapy and student observation.

SEMINARS AND GRADUATE COURSES

The seminars offered are selected from the following (in most cases, laboratory practice is required):

Miss McBride:

The American School.

Mrs Cox:

Advanced Clinical Evaluation

(including the Projective Techniques.)

The Individual.

Problems of Child Development.

Adolescent Development.

Miss Maxfield:

Developmental Psychology.

Early Childhood Education.

Growth and Learning in the Kindergarten.

Mrs Maw:

Educational Psychology.

Curriculum of the Elementary School.

Research and Measurement in Education and Child Development.

Mrs Pepitone:

History and Philosophy of Education.

The Social Psychology of the School.

Mrs Soffen:

The Psychology of Exceptional Children.

Diagnosis and Remediation of Learning Deficits.

Principles and Organization of the Guidance Program.

The Counseling Process.

SELECTED UNDERGRADUATE COURSES

Prerequisite: General Psychology.

201a. *Educational Psychology*: Mrs Maw.

206a. *Child Psychology*: Mrs Cox.

301a. *Principles of Teaching in the Secondary School*: Mrs Maw.

302a. *Principles of Teaching in the Elementary School*: Mrs Maw.

These two courses, 301a and 302a, satisfy the student-teaching requirement of most states. Plans for registration should be made in the spring or summer before the student expects to take the course so that appropriate arrangements can be made. Supervised teaching: 12 hours per week.

304b. *Abnormal Psychology*: Mrs Cox.

English

Professors: Mary Katharine Woodworth PHD *Chairman*
Isabel Gamble MacCaffrey PHD
K. Laurence Stapleton AB¹

Associate Professor: Robert B. Burlin PHD

Assistant Professors: Peter J. Leach MFA
Catherine Rodgers Myers PHD²
Robert L. Patten PHD

Visiting Lecturer: Thomas Patrick Roche, Jr. PHD

Lecturers: Roger M. Cummins MA
Joan L. Klein PHD
K. Scott Morgan PHD

Special Requirements for Graduate Work
(for the general requirements see pages 16-18)

Prerequisites. An undergraduate major in English (or its equivalent) consisting of a critical and historical study of several periods of English Literature. Students working in the mediaeval period must have

¹ On leave, semester II, 1967-8.

² On leave, 1967-8.

a reading knowledge of Latin. For other students this is strongly recommended. Students must have had some training in at least one other field of the humanities: a classical or a modern foreign literature, History, the History of Art or Philosophy. All applicants should submit scores in the Aptitude Test and Advanced Test of the Graduate Record Examinations.

Allied Subjects. Any language and literature, classical or modern European; English Philology; American Literature; Philosophy; History, mediaeval or modern; and the History of Art.

Language Requirements. French and German. In special cases, another modern language may be substituted for German, by permission of the Department. M.A. candidates may be permitted to offer a classical language instead of German. Ph.D. candidates will be expected to present evidence of a knowledge of Latin equivalent to two years of high school training. This requirement must be satisfied before the candidate takes the Preliminary Examination for the Ph.D.

Program and Examinations for the M.A. Three units of work in English or two in English and one in an allied field. The Final Examination is written, four hours in length. The M.A. paper is due on May 1.

Program and Examinations for the Ph.D. Seminars are given in all the major fields of English literature, and the topics selected for investigation are designed to offer training in advanced methods of research. Through reports and discussion, attention is directed to problems in the history of literature and the interpretation of the writings of major authors. Various points of view in literary criticism are represented, with emphasis on the nature of genres and modes as well as developments in the intellectual history of England and America.

The equivalent of six units of graduate work is required, one of which may be in an allied field. Candidates for the Ph.D. in English will be expected to spend at least one year in full-time graduate work in the Department. The program must include some training in Old English or in the History of the English Language, unless a special exception is granted. The Preliminary Examination is in five parts: four written (four hours each) and an oral (one to two hours). One examination may be in an allied field. The Final Examination (oral, from one to two hours) is in the field in which the candidate has written the dissertation. In the choice of four fields for the Preliminary Examination, the student is expected to demonstrate a balanced knowledge of different periods. The possibility of supervised units in the field of the dissertation allows for independent study and analysis of new problems in research. Qualified students are encouraged to offer work in related departments such as other literatures, philosophy, and history.

SEMINARS AND GRADUATE COURSES

Since seminars run through the year, students must begin work in the first semester.

Mr Burlin:

Old English Literature.
Middle English.

Mrs MacCaffrey:

Spenser and Sixteenth-Century Poetry.

Mr Roche:

Shakespeare.

Miss Stapleton:

Studies in Poetry.
Milton.

Miss Woodworth:

Literature of the Eighteenth Century.
Contemporary Literature.

Mr Patten:

The Victorian Period.

Mr Cummins:

Studies in American Literature.

SELECTED UNDERGRADUATE COURSES

- 201. *Chaucer*: Mr Burlin.
- 202. *Shakespeare*: Mr Morgan.
- [203. *The Romantic Period*: Instructor to be announced.]
- 204. *The Victorian Period*: Mr Patten.
- [206b. *Restoration Drama and the Age of Dryden*: Mrs Klein.]
- 207. *English and American Literature of the Last Half Century*:
Miss Woodworth.
- 208. *American Literature*: Mr Cummins.
- [212b. *Blake*: Miss Woodworth.]
- 214a. *Philosophical Themes in Poetry*: Mrs MacCaffrey.
- [301. *Narrative Plays and Lyrics of the Later Middle Ages*:
Mrs Myers.]
- 302. *The Sixteenth Century*: Mrs MacCaffrey.
- 303a. *Elizabethan and Jacobean Drama*: Mr Morgan.
- 304. *The Seventeenth Century*: Miss Stapleton.
- [305. *The Eighteenth Century*: Miss Woodworth.]

French

Professors: Michel Guggenheim PHD *Chairman*
Mario Maurin PHD

Visiting Professor: William J. Roach PHD

Assistant Professors: Ellen Ginsberg PHD
M. Pauline Jones PHD¹
Catherine Lafarge PHD

Special Requirements for Graduate Work
(for the general requirements see pages 16-18)

Prerequisites. An undergraduate major in French, based on study in school and at least three years of college French, including some advanced work in literature, with evidence of ability to present reports and carry on discussion in French. Training in Latin corresponding to at least two years' study in school.

Major and Allied Subjects. Students specialize in Modern French Literature. In general, it is required that Old French Philology and Literature be offered as the allied subject. In special cases and with the consent of the Department, one of the following may be accepted as an allied subject: any literature, ancient or modern; Comparative Philology; European History; Philosophy; History of Art.

Language Requirements. For the M.A. degree, one Romance language, or German, or evidence of extensive training in Mediaeval Latin or Advanced Latin. For the Ph.D. degree, one Romance language and German.

Program and Examination for the M.A. Candidates will offer two units of graduate work in French and a third unit, graduate or undergraduate, in either French or an allied field. An M.A. paper on a topic related to the work in one of the seminars is required. The Final Examination consists of a three-hour written examination and a one-hour oral examination, both in French.

Program and Examination for the Ph.D. The Preliminary Examination consists of four papers written in French, and an oral examination. Usually one paper is in Old French Philology and Literature. If another allied subject is offered, questions on Old French Philology and Literature will be included in one of the fields of the major examination papers. The Final Examination is oral and covers the field in which the dissertation has been written.

¹ On leave, 1967-8.

SEMINARS AND GRADUATE COURSES

The introductory course in Old French is offered every two years. Students wishing further work in Old French may attend graduate courses at the University of Pennsylvania. Graduate seminars in selected fields of Modern French Literature are given each year, so arranged that the same one will not be given in successive years. The seminars, which are conducted in French, are selected from the following:

Old French

Mr Roach: *Introduction à la littérature du moyen âge, présentation systématique des éléments de grammaire historique.*

Modern French Literature

Mrs Ginsberg: *Aspects de la poésie au XVIe Siècle.*

Le Théâtre au XVIe Siècle.

La tradition philosophique au XVIIIe Siècle.

Mr Guggenheim: *Le moi dans la littérature française de Montaigne à Gide.*

Moralistes du XVIIe Siècle.

Rousseau et le Prémantisme.

Stendhal—Balzac—Flaubert.

Miss Jones: *Baudelaire.*

Scève et Mallarmé.

Origines de la poésie moderne.

Miss Lafarge: *Diderot.*

Le Roman au XVIIIe Siècle.

Le Thème de la prison au XIXe Siècle.

Mr Maurin: *Aspects de l'autobiographie aux XIXe et XXe Siècles.*

Rabelais et Montaigne.

Arts Poétiques de Mallarmé au Surréalisme.

Proust—Gide—Mauriac.

Journal Club. During the year members of the Department and graduate students meet at intervals to discuss research in progress, or recent books and articles of interest. Some of these meetings are held jointly with the Departments of Italian and Spanish.

SELECTED UNDERGRADUATE COURSES

[301. *French Lyric Poetry*: Mrs Ginsberg, Miss Jones.]

[302. *French Drama*: Mrs Ginsberg, Miss Jones.]

303. *The French Novel from 1700 to 1960*:

Miss Lafarge, Mr Guggenheim.

304. *French Essayists and Moralists*:

Mr Guggenheim, Mr Maurin.

305a. *Claudel et Valéry*: Mr Maurin.

305b. *Voltaire et Rousseau*: Mrs Ginsberg.

Geology

Professors: Edward H. Watson PHD *Chairman*

Lincoln Dryden PHD

Assistant Professors: Maria Luisa B. Crawford PHD

William A. Crawford PHD

J. Duncan Keppie PHD

Special Requirements for Graduate Work

(for the general requirements see pages 16-18)

Prerequisites. A course in General Geology and at least one course from each of the larger fields: Physical Geology and Paleontologic-stratigraphic Geology. Training in the allied sciences of Physics, Chemistry, Biology and Mathematics is necessary.

Major and Allied Subjects. Students may specialize in the fields typified by: Mineralogy-Petrology, Paleontology-Stratigraphy or Regional and Structural Geology. The allied subject for the Ph.D. may be either another field of Geology or any one of the other natural sciences or Mathematics; other subjects may be accepted in special cases.

Language Requirements: In general, any two of the following are acceptable for the Ph.D.: Russian, German, French. Any one is acceptable for the M.A.

Program and Examination for the M.A. Three units of work, of which one will usually be a special piece of field or laboratory research. The Final Examination consists of a four-hour written test and a one-hour oral.

Program and Examinations for the Ph.D. Candidates will spend a major proportion of their time on a research problem; ordinarily, this will involve field mapping and collecting, together with laboratory study. The number of units of course work to be taken will depend on the student's preparation. The Preliminary Examination will test general background in Geology, the candidate's special field and either an allied subject or an additional field in Geology.

SEMINARS AND GRADUATE COURSES

Three or four seminars are offered each year, to be selected from the following:

Mr Watson, Mr Crawford: *Petrology*.

Selected subjects in the structure, physical chemistry and origin of rocks.

Mr Watson, Mr Keppie: *Structural Geology*.

Modern techniques and concepts in structural analysis.

Mr Watson, Mrs Crawford: *Mineralogy*.

The optical, chemical and X-ray study of selected mineral groups.

Mr Dryden: *Stratigraphy*.

A study of selected theoretical and practical problems of correlation. Usually conducted in connection with a field problem.

Mr Dryden: *Sedimentation*.

A study of the origin of sedimentary rocks; their source, transportation and deposition.

Mrs Crawford: *Metamorphism* (semester I).

The physical and chemical processes of metamorphism, accompanied by regional studies. Instruction on the universal stage and a study of petrofabrics may be included.

Mrs Crawford: *Optical Mineralogy—Petrography*.

Semester I: Crystal optics and the properties of the rock-forming minerals. Semester II: A microscopic study of igneous, sedimentary and metamorphic rocks.

Mr Crawford: *Geochemistry*.

Experimental physical chemistry, phase equilibria, and the distribution and behavior of the elements as applied to geologic problems.

Mr Crawford: *Analytical Techniques*.

Laboratory course in wet chemical and instrumental means of silicate analysis. Mechanical separations and experimental petrology.

Mrs Crawford: *X-ray Diffraction Techniques* (semester II).

Powder and single crystal analysis. Open to any student in the sciences.

SELECTED UNDERGRADUATE COURSES

[201. *Crystallography and Mineralogy*: Mr Watson.]

301. *Structural and Field Geology*: Mr Watson.

[302. *Stratigraphy*: Mr Dryden.]

German

Professor: Christoph E. Schweitzer PHD *Chairman*

Assistant Professor: Nancy C. Dorian PHD¹

Visiting Lecturer: Hans Bänziger PHD

Instructor: Katherine L. Holli MA

Instructor of Linguistics: Alison Anderson PHD

Special Requirements for Graduate Work

(for the general requirements see pages 16-18)

Prerequisites. An undergraduate major or minor in German or an equivalent preparation.

Major and Allied Subjects. Students may specialize in either German literature or Germanic philology. One of these two fields or an area in the humanities, especially the literatures, may serve as the allied subject. Part of the training of each graduate student is directed toward the theory and practice of teaching German language and literature.

Language Requirements. Normally French for the M.A.; French and Latin or another language for the Ph.D.

Program and Examination for the M.A. The program consists of three units in German literature or in German literature and an allied field. In addition to acquainting the student with the field in general, the M.A. program introduces various methods of literary criticism. Every candidate must present a paper which represents satisfactory evidence of independent research. The Final Examination consists of a three-hour written examination and an oral examination of one hour.

Program and Examinations for the Ph.D. Every candidate must fulfill certain requirements in German literature and Germanic philology. Those majoring in Germanic philology will select the following courses: History of the German language, Gothic, Old High German, Middle High German, structural linguistics, and one of the following: Old English or Old Norse. Those majoring in German literature will take a minimum of one unit in Germanic philology and will normally take one unit each in the mediaeval, classical, and modern periods, as well as at least one genre course. Under the guidance of members of the Department each student will engage in independent

¹ On leave, 1967-8.

reading and research to supplement the course work. The Department encourages interdepartmental research projects and draws attention to the Ottendorfer Research Fellowship for study at a German university. The Preliminary Examination consists of four written papers, one of which must be taken in an allied field, and an oral examination. The Final Examination covers the field of the dissertation.

SEMINARS AND GRADUATE COURSES

The courses offered are selected from the following:

Mr Bänziger:

Modern German Literature.
"Novelle" and Novel.
Modern German Drama.

Miss Dorian:

Linguistics.
Germanic Philology.

Miss Holli:

Middle High German Literature.
Romanticism.
Anglo-German Literary Relations.

Mr Schweitzer:

German Baroque Literature
Lessing, Goethe, and Schiller.
The "Bildungsroman."

SELECTED UNDERGRADUATE COURSES

300a. *German Literature from the Beginnings to the Baroque:*
 Mr Schweitzer.

[301b. *Introduction to Germanic Philology:* Miss Dorian.]

[302b. *German Language and Literature of the Middle Ages:*
 Miss Holli.]

[303. *The Classics of the Nineteenth Century:* Mr Schweitzer.]

[304. *Modern German Literature:* Mr Bänziger.]

305a. & b. *The German "Novelle" and Novel:* Mr Bänziger.

[306. *The German Drama:* Mr Schweitzer.]

[307b. *German Poetry:* Miss Holli.]

Greek

Professors: Mabel L. Lang PHD *Chairman*
Richmond Lattimore PHD LITT D
Instructor: Gregory W. Dickerson MA

Special Requirements for Graduate Work
(for the general requirements see pages 16-18)

Prerequisites. An undergraduate major or minor in Greek, based on at least four years of college Greek, or the equivalent, with representative reading from Greek literature and history which, in the opinion of the Department, provides an adequate basis for graduate work. It is expected that all graduate students in Greek will have some knowledge of Latin.

Allied Subjects. Any literature, ancient or modern, Ancient History, Ancient Philosophy, Classical Archaeology, Comparative Philology.

Language Requirements. French and German for both the M.A. and the Ph.D.

Program and Examination for the M.A. The program consists of two units of graduate work in Greek and a third unit in an allied field. Before admission to the Final Examination candidates must pass an examination in Greek sight translation. The Final Examination consists of a three-hour written examination and an oral examination of one hour.

Examinations for the Ph.D. Before admission to the Preliminary Examination candidates must pass a rigorous examination in Greek sight translation. The Preliminary Examination consists of four written papers, one of which shall be in an allied subject, and an oral examination. The fields from which the three major papers may be selected include: Epic Poetry (with emphasis on Homer), Lyric Poetry (with emphasis on Pindar), Tragedy, Comedy, the Orators, the Historians, the Pre-Socratics, Plato and various periods of Greek history. The Final Examination covers the field of the dissertation.

SEMINARS AND GRADUATE COURSES

Miss Lang: *Herodotus*.

Style and content will be studied for themselves in both isolation and interaction. Consideration will be given to sources (oral, written and monumental) as well as to the moral and ideological bias of Herodotus. Some attempt will be made to view the historian in the context of the 5th century B.C. climate of opinion.

In addition to Herodotus' History there will be supplementary Greek reading, secondary sources and critical material, as well as individual research topics, both short and long.

Mr Lattimore: *Tragedy*.

The Seminar will be principally concerned with the legend of the House of Atreus, as seen in five major plays: Aeschylus, *Agamemnon*, *The Choephoroi*, *The Eumenides*; Sophocles, *Electra*; Euripides, *Electra*. These five plays will be studied as examples of the way in which the three major tragic poets deal with heroic legend. Supplementary studies will be made of other plays, and due regard will be given to questions of text, metre, dramatic construction, and moral and religious issues.

SELECTED UNDERGRADUATE COURSES

- 101. *Herodotus and Tragedy*: Miss Lang and Mr Lattimore.
- 201. *Plato, Thucydides and Tragedy*: Mr Dickerson.
- 301. *Hesiod, Lyric Poetry and Comedy*: Mr Lattimore.

History

Professors: Caroline Robbins PHD *Chairman*
 Elizabeth Read Foster PHD
Dean of the Graduate School
 Arthur P. Dudden PHD

Assistant Professors: Charles M. Brand PHD
 Mary Maples Dunn PHD
 Barbara M. Lane PHD¹
 Alain Silvera PHD

Lecturer: Joseph A. Airo-Farulla MA

Assistant Professor of Latin: Russell T. Scott PHD
Instructor of Greek and Latin: Gregory W. Dickerson MA

Special Requirements for Graduate Work
 (for the general requirements see pages 16-18)

Prerequisites. A good undergraduate preparation in general History, the humanities and the social sciences. Students who wish to work

¹ On leave, 1967-8.

in seminars in the ancient or mediaeval fields must be able to read Latin. Those planning work in Modern European History must have a reading knowledge of one modern language, preferably French or German.

Major and Allied Subjects. Students may work in Ancient, Mediaeval or Modern European History as well as in English and American. Most subjects in the field of History, social science, literature and the humanities will be accepted as allied work provided the student's general preparation is acceptable.

Language Requirements. Students must offer at least one modern foreign language, to be determined by the Department, for the Master's degree. Students who wish to continue work toward the Ph.D. must have completed the examinations in two modern foreign languages, to be determined by the Department, by the end of the second year of residence. Candidates for the Ph.D. in mediaeval history must also demonstrate ability to read in one classical language; directors of research may also require demonstration of ability in special techniques.

Program and Examination for the M.A. The program consists of three units of work in History or in History and an allied field. The Final Examination is written, and is usually four hours in length.

Program and Examinations for the Ph.D. All students are expected at some time to take a seminar or course in which some aspects of historiography and historical method are studied. The Preliminary Examination tests the student's competence in four general fields of History, or in three fields of History and one field in an allied subject. For example, allied work in Mediaeval Literature, Art or Philosophy is usually recommended to students of Mediaeval History and one of these may be offered in the Preliminary Examination. Students whose dissertations are in American History will be required to take at least two fields in European History. Students specializing in English History must offer at least two fields of Mediaeval or Modern European History for examination. The Final Examination covers the field of the dissertation.

SEMINARS AND GRADUATE COURSES

The seminars are arranged to allow the fullest possible choice for students over a two- or three-year period of study. Normally the same seminar will not meet two years in succession. Topics listed below indicate the area in which seminars will be offered according to the needs of students.

Mediaeval and Renaissance History

Mr Brand: *Topics in the Middle Ages.*

[*The Fifth and Sixth Centuries.*]

[*The Carolingians.*]

The Twelfth Century.

British History

[Miss Robbins: *Topics in the History of the Period 1649-1875.*]

Each year a selected period is studied: e.g., Restoration, Revolution, Septennial Parliament, the age of Gladstone and Disraeli.

Mrs Foster: *Parliament in the Early Stuart Period* (semester I).

American History

Mrs Dunn: *Topics in Colonial and Early National History.*

Mr Dudden: *Topics in the History of the United States.*

Progressivism and the New Deal.

Modern European History

Miss Robbins: *Eighteenth Century Life and Thought.*

[Mrs Lane: *Topics in the History of the Twentieth Century.*]

Mr Silvera: *The French Third Republic.*

Mrs Dunn: *Historical Method* (semester I).

Miss Robbins: *Great Historians* (semester II).

Journal Club. Faculty and students of the Department, and occasionally members of the Departments of Economics and Political Science, meet four or five times a year to discuss research in progress, or recent books and projects, or to meet visiting scholars.

SELECTED UNDERGRADUATE COURSES

208. *Byzantine Empire:* Mr Brand.

[301. *Europe in the Twentieth Century:* Mrs Lane.]

303. *Recent History of the People of the United States of America:* Mr Dudden.

304. *The Victorians and Edwardians:* Miss Robbins.

305. *Renaissance and Reformation:* Mr Airo-Farulla.

306a. *The Enlightenment:* Miss Robbins.

[307a. *Age of Revolution:* Mrs Dunn.]

History of Art

Professor: Charles Mitchell MA BLITT *Chairman*

Associate Professor: James E. Snyder MFA PHD

Assistant Professors: Charles G. Dempsey MFA PHD
Anne Coffin Hanson MACA PHD¹

Lecturer: Charles Douglas Lewis, Jr. PHD

Special Requirements for Graduate Work
(for the general requirements see pages 16-18)

Field of Study. The history of Western art from Early Christian to modern times.

Prerequisites. The normal prerequisite for admission is undergraduate training in art-history, but students with special abilities or sound training in cognate disciplines are exceptionally admitted.

Language Requirements. Students are expected to read or to be learning the languages necessary for their special fields of study and not to delay their research by lack of linguistic competence. Advanced study of western art-history normally involves a working knowledge of Latin, French, German and Italian. Both M.A. and Ph.D. candidates are subject to the general Graduate School rules with regard to languages, except that M.A. candidates are required to prove by examination their knowledge of two modern foreign languages.

Allied Subjects. History, Archaeology, Classics, Modern Languages; others, exceptionally, by arrangement.

Program for the M.A. (a) Three units of graduate work, one of which may be in an allied field, (b) an extended paper on an approved topic, (c) a written (or written and oral) examination to test the candidate's ability to place this topic in its art-historical context.

Program for the Ph.D. Prime emphasis is placed on a program of study and research leading to the dissertation, and students normally begin to work under a personal supervisor soon after entry. The Preliminary Examination consists of four written papers and an oral examination on four areas of art-history (or on three and one allied subject). After two or three years in College, students normally go abroad for a period of whole-time research on their dissertations.

Kress Program. The Department participates in the Samuel H. Kress Foundation Fellowship Program.

¹ On leave, 1967-8.

SEMINARS AND GRADUATE COURSES

Four one-term seminars, on widely spaced topics that change from year to year, are annually given, in addition to individual units of supervised work. Graduate students are sometimes advised to take selected intermediate (mediaeval, Renaissance, baroque, or modern art) or advanced undergraduate courses. Topics for 1967-8:

Mr Mitchell: *Picasso* (semester II).

Mr Snyder: *Carolingian Art* (semester I).

Mr Dempsey: *Poussin* (semester II).

Mr Lewis: *Post-Renaissance Venetian Architecture* (semester I).

ADVANCED UNDERGRADUATE COURSES

300a. *Texts for Art Historians*: Mr Mitchell.

311b. *Flemish Painting after Van Eyck*: Mr Snyder.

313a. *Baroque Iconography*: Mr Dempsey.

314b. *Tiepolo and Delacroix*: Mr Lewis.

History of Religion

Visiting Lecturer in History of Religion:

Morton S. Enslin PHD *Chairman*

Associate Professor of Philosophy: Jean A. Potter PHD

No graduate work is offered in History of Religion.

The courses listed below are open to graduate students and may be taken for graduate credit with permission of the major department.

UNDERGRADUATE COURSES

103. *Literary History of the Bible*: Mr Enslin.

201a. *History of Ancient Israel*: Mr Enslin.

201b. *Christian Beginnings*: Mr Enslin.

204a. *Philosophy of Religion*: Miss Potter.

This course is also listed as Philosophy 204a.

[204b. *Mediaeval Philosophy*.]

206b. *Apocrypha and Pseudepigrapha*: Mr Enslin.

Italian

Lecturers: Antonio Mastrobuono MA
Bernard Toscani PHD¹

Instructor: Carmen Salvoni Lic.

The courses listed below are open to graduate students and may be taken for graduate credit with the permission of the major department.

- 201. *Classics in Italian Literature.*
- 202. *Dante.*
- 304. *Italian Literature of the Romantic Period.*

Latin

Professor: Agnes Kirsopp Michels PHD *Chairman*

Associate Professor: Myra L. Uhlfelder PHD

Assistant Professor: Russell T. Scott PHD

Instructor: Gregory W. Dickerson MA

Special Requirements for Graduate Work
(for the general requirements see pages 16-18)

Prerequisites. An undergraduate major or minor, consisting of at least three years of Latin in college. All graduate students in Latin are expected to have begun the study of Greek.

Allied Subjects. The Department recommends as allied subjects: Greek, Classical Archaeology, Ancient History, Linguistics, or, for students whose special interest is in the Mediaeval period, Mediaeval History or a vernacular literature.

Language Requirements. French and German are required for both the M.A. and the Ph.D.

¹ On leave, 1967-8.

Program and Examination for the M.A. Candidates will normally offer two units of work in Latin and one unit, graduate or undergraduate, in an allied field. Students will normally complete the work for the degree in one year, but, in cases in which it seems advisable to supplement the student's undergraduate preparation, a second year may be necessary. Candidates must pass a test in Latin sight translation before being admitted to the Final Examination, which consists of a three-hour written and a one-hour oral examination.

Program and Examinations for the Ph.D. Candidates will normally complete a two-year program of four units of work in Latin and two in an allied field. Three of these units may be those offered for the M.A. degree, which usually forms part of the doctoral program. Candidates should then undertake a program of independent reading planned to enable them to pass the Preliminary Examination as soon as possible, after which they will concentrate on the dissertation. In some cases it may be advisable to carry one or two more units of work in the third year. The Preliminary Examination consists of: two four-hour written papers on Latin Literature; one four-hour written paper on a special field such as a particular period of Roman history, the works of a special author, Mediaeval Latin Literature, Epigraphy, Palaeography, the History of Classical Scholarship; one four-hour written paper in the field of the allied subject; a general oral examination. Students whose major interest is in the Mediaeval period will take the two examinations in Latin Literature, one in Mediaeval Latin Literature, and a fourth in a field related to the Middle Ages or to the transmission of the Classics. Before admission to the Preliminary Examination, all students must pass tests in sight translation of Latin and Greek. The Final (oral) Examination will be on the field of the dissertation.

SEMINARS AND GRADUATE COURSES

Seminars will be selected in a sequence planned so that candidates for the doctorate will distribute their work over the following four groups. All seminars will run for one semester unless otherwise indicated.

Group I—*Republican and through the Augustan Age:*

Roman Comedy.

Elegy.

Lucretius.

Catullus.

Cicero's Letters and Orations.

Cicero's Philosophical Works.

Historiography from the Later Republic through the Augustan Age (two semesters).

Augustan Poetry (two semesters).

Group II—*Silver Age through the Antonine Period:*

Silver Age Poetry (two semesters).

Tacitus.

Roman Satire.

Petronius and Apuleius.

Group III—*Late Empire and Middle Ages:*

History of the Late Empire.

Literature of the Late Empire.

The Platonic Tradition in the West (Late Empire and Middle Ages).

Latin Literature of the Early Mediaeval Period (two semesters).

Latin Literature of the Twelfth Century (two semesters).

Group IV—

Proseminar: Background Reading.

The Classical Tradition: Scholarship and the Transmission of Texts (two semesters).

Roman Rhetoric (two semesters).

Roman Topography and Monuments.

SELECTED UNDERGRADUATE COURSES

[301a. *Vergil's Aeneid*: Mrs Michels.]

[301b. *Tacitus*: Mr Scott.]

302a. *Lucretius*: Miss Uhlfelder.

302b. *Cicero and Caesar*: Mr Scott.

Mathematics

Professor: John C. Oxtoby MA *Chairman*

Associate Professor: Frederic Cunningham, Jr. PHD

Assistant Professors: Ethan D. Bolker PHD¹

Martin Avery Snyder PHD

Special Requirements for Graduate Work

(for the general requirements, see pages 16-18)

Prerequisites. A good undergraduate preparation in Mathematics, or in Mathematics and Physics.

¹ On leave, 1967-8.

Major and Allied Subjects. Students may specialize in any of the broad divisions of Mathematics: Algebra, Analysis, Geometry, or Mathematical Physics, but are expected also to acquire a well-rounded knowledge of Mathematics. Certain courses in Physics, Chemistry or Philosophy (logic) are accepted as allied work.

Language Requirements. Candidates for the M.A. must have a reading knowledge of French, German or Russian. Candidates for the Ph.D. must pass examinations in two of the three: French, German, Russian.

Program and Examination for the M.A. The program consists of three units of work in Mathematics, or in Mathematics and an allied field, and an M.A. paper. Advanced undergraduate courses which supplement the student's preparation may under certain conditions be taken for graduate credit. The Final Examination is usually oral and one hour in length.

Program and Examinations for the Ph.D. Candidates will take such courses and seminars as are needed to provide a sufficiently broad foundation. As they progress they will devote an increasing proportion of their time to individual study and research under the direction of a member of the Department. The Preliminary Examination is taken after the student is well advanced and usually consists of three or four written examinations intended to test the candidate's breadth of knowledge and understanding of the structure of Mathematics as a whole. It may or may not include an oral examination. The Final Examination is oral and is devoted to the candidate's special field and the subject of the dissertation.

SEMINARS AND GRADUATE COURSES

At least three graduate courses or seminars are offered each year. Additional courses or directed reading and research can be arranged. The seminars offered in any year are selected to meet the needs of the individual students. Some may be offered for one semester only.

[Mr Bolker:

Hilbert Space.

Topological Groups.

Banach Algebras.]

Mr Cunningham:

Functional Analysis.

General Topology.

Linear Spaces.

Theory of Functions.

Mr Oxtoby:

Ergodic Theory.

Measure Theory.

Point Set Topology.

Theory of Functions.

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Mr Snyder:

Applied Mathematics.

Numerical Analysis.

Partial Differential Equations.

Magneto-Hydrodynamics.

Journal Club. A Mathematical Colloquium at the University of Pennsylvania meets approximately every two weeks. Lectures by visiting mathematicians are frequently presented also at Haverford and Swarthmore Colleges.

SELECTED UNDERGRADUATE COURSES

301. *Advanced Calculus:* Mr Oxtoby.

303a. *Introduction to Abstract Algebra:* Mr Cunningham.

307. *Numerical Analysis:* Mr Snyder.

[310. *Theory of Functions of a Complex Variable:* Mr Oxtoby.]

312b. *Topology:* Mr Cunningham.

Mediaeval Studies

Associate Professor of Philosophy: Jean A. Potter PHD *Chairman*

Professor of History of Art: Charles Mitchell MA BLITT

Professor of Spanish: Joaquín González Muela D en FL

Associate Professor of History of Art: James E. Snyder PHD

Associate Professor of Latin: Myra L. Uhlfelder PHD

Associate Professor of English: Robert B. Burlin PHD

Assistant Professor of History: Charles M. Brand PHD

Assistant Professor of Music: Isabelle Cazeaux PHD

Graduate work for the M.A. in the mediaeval field may be done either under a particular department or under the Mediaeval Studies Committee. Doctoral studies in the mediaeval period will usually come under the supervision of a particular department; in exceptional cases students with outstanding preparation will be permitted to take the Ph.D. in Mediaeval Studies.

Mediaeval work in a particular department will fall under the regulations of that department. For work under the Mediaeval Studies Committee the regulations are as follows:

Prerequisites. The committee must be satisfied that all candidates for admission have done sufficient undergraduate work to undertake

graduate studies in the mediaeval field and have a reading knowledge of Latin and two modern languages.

Major and Allied Subjects. Any literature, ancient, mediaeval or modern, History, Philosophy, Classical Archaeology, History of Art, History of Music.

Language Requirements. For the M.A. and the Ph.D.: Latin, and two modern languages. Other languages may be substituted by permission of the Committee according to the candidate's special program.

Program and Examinations for the M.A. Candidates will normally work in two departments and will offer at least two units of graduate work in any of the mediaeval fields and a third unit in any of the fields listed as allied. An extended paper, usually growing out of the work of one of the seminars, will be required in addition to an examination. The Final Examination may be either written (four hours) or written and oral (three hours - one hour).

Program and Examinations for the Ph.D. The course of study will normally be under the guidance of one professor. Prime emphasis will be placed on a program of research leading to a dissertation. A satisfactory Preliminary Examination in two mediaeval fields and one allied field, written and oral, will be required. The Final Examination will cover the field of the dissertation.

SEMINARS AND GRADUATE COURSES

See under the various Departments.

Music

Professor and Director of the Chorus:

Robert L. Goodale BMUS AAGO Chairman

Professor and Director of Ensemble Groups: Agi Jambor MA

Assistant Professor: Isabelle Cazeaux PHD

Lecturer: Arthur J. Komar MMUS MFA

Director of Orchestra: William H. Reese PHD

Special Requirements for Graduate Work

(for the general requirements, see pages 16-18)

Prerequisites. Two years of Harmony, Counterpoint and Analysis, three years of History and Appreciation of Music, of which at least

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one should be in an advanced course, and a reading knowledge of one modern language, preferably German. Candidates must have a sufficient knowledge of pianoforte or organ playing to be able to play music of the technical difficulty of a Bach figured chorale.

Allied Subjects. Any modern language or literature, History, History of Art, History of Religion, Philosophy.

Language Requirements. Two modern languages are required for the M.A. degree, preference being given to German and French. For candidates for the Ph.D. degree two languages are required, one of which must be German.

Program and Examination for the M.A. The program consists of three units of work in Music or in Music and an allied field. The Final Examination is written and four hours in length.

Examinations for the Ph.D. The Preliminary Examination consists of four papers in the major field, or three papers in the major field and one in an allied field, and an oral examination. The Final Examination covers the subject matter of the dissertation.

SEMINARS AND GRADUATE COURSES

Miss Cazeaux:

Seminar in Musicology.

Mr Goodale:

Music of the Twentieth Century.
Theory and Analysis.

Mme Jambor:

The Interpretation of Music.

SELECTED UNDERGRADUATE COURSES

201. *The Nineteenth Century:* Miss Cazeaux, Mr Komar.
202. *Advanced Theory and Analysis:* Mr Komar.
- 203a. *Bach:* Mme Jambor.
- 203b. *The Classical Period:* Mme Jambor.
- 205a. *Musical Criticism:* Miss Cazeaux.
301. *Music of the Twentieth Century:* Mr Goodale, Mr Komar.
- [301b. *Opera and Music Drama:* Miss Cazeaux.]
- 302a. *Mediaeval and Early Renaissance Music:* Miss Cazeaux.
- 302b. *Late Renaissance and Early Baroque Music:* Miss Cazeaux.
- 303b. *Orchestration:* Mr Goodale.
- 304a. *Interpretation of Keyboard Music:* Mme Jambor.
305. *Free Composition:* Mr Goodale.

Philosophy

Professors: Milton C. Nahm BLITT PHD¹ *Chairman*

José María Ferrater Mora *Lic FL*

George L. Kline PHD²

Isabel Scribner Stearns PHD

Associate Professor: Jean A. Potter PHD

Assistant Professor: Robert K. Meyer PHD

Lecturer: Alison D. Knox MA PHB

Special Requirements for Graduate Work

(for the general requirements, see pages 16-18)

Prerequisites. In general, an undergraduate major in Philosophy. Students whose undergraduate training does not include a major in Philosophy may be required to take such undergraduate courses as the Department considers necessary.

Major and Allied Subjects. Students may major in either historical or systematic branches of Philosophy. Allied subjects: another field of Philosophy and subjects in most fields of the humanities, mathematics, and natural and social sciences.

Language Requirements. For the M.A., one modern language. French and German for the Ph.D. In special cases, with the recommendation of the Department, a substitution may be made of one other modern language.

Program and Examination for the M.A. Three units of work in Philosophy or in Philosophy and an allied field. The Final Examination is usually written and four hours in length.

Examination for the Ph.D. The Preliminary Examination consists of four written papers in the major and allied fields and an oral examination. The Final Examination will cover the field of the dissertation.

SEMINARS AND GRADUATE COURSES

A minimum of three seminars, historical and systematic, is offered each year. The sequence of the seminars listed below will be adjusted according to the needs of the students.

¹ On leave, semester II, 1967-8.

² On leave, semester I, 1967-8.

Mr Nahm: *Aesthetics*.

A systematic and historical analysis of problems in the philosophy of art.

Ethics.

A study of Plato's and Aristotle's or of Kant's ethical theories.

Kant.

A study of the *Critique of Judgment* and the *Critique of Practical Reason*.

Miss Stearns: *Metaphysics*.

A study of such metaphysical problems as causation, the nature of the individual, the person, reality and value.

Epistemology.

A systematic and historical study of such problems as the nature of universals, the nature of language, and the function of different agencies in knowledge.

Mr Ferrater Mora: *Heidegger and Wittgenstein*.

A study of Heidegger's and Wittgenstein's views of language and life.

Phenomenology.

The origin and development of phenomenology in Husserl and related authors.

History of Philosophic Concepts.

The origin and development of philosophic concepts, with particular attention to meanings and changes of meaning throughout history.

Mr Kline: *Hegel*.

An intensive study of the *Phenomenology of Mind*.

Russian Philosophy.

An examination of selected thinkers and schools, from the eighteenth to the mid-twentieth century. A reading knowledge of Russian would be helpful but is not required.

Ethics.

A close examination of classical texts in ethical theory, with some attention to twentieth-century authors.

Miss Potter: *Mediaeval Philosophy*.

Studies in selected problems and texts in mediaeval philosophical thought.

Continental Rationalism.

A detailed study of Descartes and Spinoza.

Philosophy of Religion.

A systematic study of the metaphysical and epistemological problems of theism.

Mr Meyer: *Deductive Logic*.

A study of deductive logic and of some outstanding results in the syntax and semantics of deductive logic.

Miss Knox: *Meta-Ethics*.

The logic of moral judgments: Are moral judgments statements of fact, expressions of emotion, concealed commands, or what? Can anything be proved in moral argument? Special attention will be paid in the seminar to contemporary analytic philosophers.

Journal Club. Graduate students have the privilege of becoming auxiliary members of the Fullerton Club. The Club meets once a month at Bryn Mawr. Papers are read by visiting lecturers and by members of the faculties of Bryn Mawr College and of nearby colleges and universities.

SELECTED UNDERGRADUATE COURSES

202a. *Kant*: Mr Ferrater Mora.

202b. *Recent Metaphysics*: Miss Stearns.

203a. *Logic*: Mr Meyer.

206b. *Contemporary Philosophy: Existentialism*:
Mr Ferrater Mora.

[207a. *Hegel*: Mr Kline.]

301a. *Aesthetics*: Mr Nahm.

303a. *Plato*: Miss Stearns.

[304a. *Texts in Mediaeval Philosophy*: Miss Potter.]

305b. *Russian Philosophy*: Mr Kline.

[306b. *Descartes and Spinoza*: Miss Potter.]

307a. *Philosophy of Language*: Miss Knox.

309b. *Theory of Knowledge*: Mr Meyer.

[311b. *Aristotle*: Mr Ferrater Mora.]

312b. *Philosophy of Science*: Mr Meyer.

Physics

Professors: Walter C. Michels PHD *Chairman*

Rosalie C. Hoyt PHD

John R. Pruett PHD

Assistant Professor: John R. Olson PHD

Special Requirements for Graduate Work
(for the general requirements, see pages 16-18)

Prerequisites. An undergraduate major in Physics or in a field of study closely allied to Physics (e.g., Mathematics, Chemistry, Engineering). Students who have not majored in Physics will usually find it necessary to take some undergraduate courses before entering graduate seminars. All applicants for admission to graduate work in Physics are requested to submit scores in the Aptitude Test and Advanced Test of the Graduate Record Examinations.

Allied Subjects. Candidates for the degree of Doctor of Philosophy customarily offer Physics as the major subject and Mathematics as an allied subject. If a candidate's mathematical preparation is accepted as being adequate for the doctoral in Physics, Chemistry, Biology, or Geology may be substituted for Mathematics. Alternatively, the candidate may offer Experimental Physics or Theoretical Physics as a major subject with the other being offered as an allied subject.

Language Requirement. For the M.A. degree, two languages are required; one, French, German or Russian; the second, "computer language," including Fortran. For the Ph.D. degree, the student ordinarily will choose one each from two of the following categories: (a) German; (b) Russian; (c) French, Italian or Spanish.

Program and Examination for the M.A. An oral qualifying examination must be passed before the student is admitted to candidacy. The subject matter of the examination will include only material ordinarily covered in undergraduate college Physics courses, but the student will be expected to handle this material on a reasonably mature level. Each candidate is expected to have completed Physics 304 or its equivalent. The three units of work offered for the degree will ordinarily include one unit of Experimental Physics and at least one graduate seminar in Theoretical Physics. The paper will usually consist of a report on work done in connection with the unit of Experimental Physics. The M.A. examination is a one-hour oral examination.

Program and Examinations for the Ph.D. Each candidate must have completed Physics 304 or its equivalent and have passed the oral qualifying examination described above before being recommended for candidacy.

The Preliminary Examination is intended to test the candidate's general background and to determine whether this background is broad and deep enough to serve as a preparation for original research work in a specialized field. In general, two years of full or part-time graduate work should prepare the student for this examination and candidates for the Ph.D. are urged to submit themselves for examination at this stage of their work. The examination will consist of three four-hour written examinations, one problem set, and an oral examination lasting approximately one hour. Each of the three four-hour examinations will cover one of the following fields of Physics, to be chosen by the Department: (1) Classical Mechanics, including relativity theory, vibrations, and wave motion; (2) Electricity and Magnetism, including field problems and electromagnetic waves, the latter with particular reference to optical phenomena; (3) Quantum Mechanics, with applications to atomic and nuclear structure; (4) Thermodynamics and Statistical Mechanics, including both classical and quantum statistics. The student devotes approximately twelve hours to direct work on the problem set over a three-day period. Any books, periodicals, notes, etc. may be used in connection with the problem set. The oral examination is devoted to general Physics.

Unless the candidate has demonstrated adequate acquaintance with experimental physics in other ways, the research leading to the dissertation must be, at least in part, experimental. The Final Examination will cover the field of the dissertation.

SEMINARS

Three or more graduate seminars in Theoretical Physics are offered each year. In addition, a seminar in Experimental Physics is arranged individually for students desiring it, and generally serves as an introduction to a research problem.

Experimental Physics

Mr Michels, Miss Hoyt, Mr Pruett, Mr Olson.

Theoretical Physics

Mr Michels: *Electromagnetic Theory.*

Maxwell's Equations, applications to waves subject to various boundary conditions, transmission lines, wave guides, radiating systems. Prerequisite: An advanced undergraduate course in Electricity and Magnetism or in Theoretical Physics.

Mr Olson: *Quantum Mechanics.*

Necessity for the quantum hypothesis. The Schroedinger and Heisenberg formulations with applications to atomic structure.

The Dirac approach with applications to relativistic electron theory and the quantum theory of radiation. Prerequisite: An advanced undergraduate course in Mechanics or in Theoretical Physics.

At least one of the following advanced seminars is given each year:

Miss Hoyt: *Chemical Physics*.

Chemical and phase equilibria, interatomic and intermolecular forces, chemical bonding, molecular structure. Prerequisite: Quantum Mechanics.

Mr Michels: *Physics of the Solid State*.

Classification and characteristics of solids, theory of mechanical, electrical, thermal, and magnetic properties. Prerequisites: Quantum Mechanics and Electromagnetic Theory. Either may be taken concurrently.

Mr Pruett: *Nuclear Physics*.

An introductory study of classical nuclear physics followed by applications of quantum mechanics to nuclear problems and associated high energy phenomena. Some quantum electrodynamics and meson theory will be included. Prerequisite: Quantum Mechanics or its equivalent.

Colloquium. All members of the Department and all graduate students meet weekly for the discussion of current problems.

SELECTED UNDERGRADUATE COURSES

201a. *Electricity and Magnetism*: Miss Hoyt.

202b. *Optics*: Mr Pruett.

301a. *Classical Mechanics*: Mr Olson.

302b. *Atomic and Nuclear Structure*: Mr Michels, Mr Pruett.

303b. *Thermal Properties of Matter*: Mr Michels.

304. *Introduction to Theoretical Physics*: Miss Hoyt.

Political Science

The Caroline McCormick Slade Department of Political Science

Professors: Peter Bachrach PHD *Chairman*

Gertrude C. K. Leighton AB LLB¹

Associate Professor: Melville T. Kennedy, Jr. PHD

Assistant Professors: Charles E. Frye PHD

Robert F. Lyke AB

Dean of the College: Dorothy Nepper Marshall PHD

Special Requirements for Graduate Work

(for the general requirements, see pages 16-18)

Prerequisites. Good undergraduate training in Political Science and related subjects.

Major and Allied Fields. The major fields in Political Science are Political Philosophy and Theory, Western Comparative Politics, Non-Western Comparative Politics, American Political Process, American Constitutional Law and International Politics and Law. Allied fields may be chosen in the other Social Sciences, in History and Philosophy, and, with the special permission of the Department, in certain subjects in Literature. Candidates for the Ph.D. are expected to prepare themselves in four fields, one of which may be allied.

Language Requirements. One modern foreign language for the M.A. Two modern foreign languages for the Ph.D.

Program and Examination for the M.A. The program consists of three units of work in Political Science, but a unit from an allied field may be substituted for one of these. The Final Examination is written.

Program and Examination for the Ph.D. Candidates are expected to offer four fields, one of them being the field in which the dissertation is done. These fields are tested by preliminary written and oral examination. The dissertation is defended in the Final Oral Examination.

¹ On partial leave, semester I, 1967-8.

SEMINARS

Mr Bachrach:

American Constitutional Law.

Topics in Political Theory.

Miss Leighton:

World Community and Law.

Mr Kennedy:

Problems in Asian International Relations.

Topics in Chinese Political and Social Development from 1911 to 1949.

Mr Frye:

European Comparative Politics.

Mr Lyke:

Topics in Urban Affairs.

Journal Club. Students are expected to attend the Journal Club. This meets from time to time during the year to discuss research in progress, recent books and other topics of scholarly interest.

SELECTED UNDERGRADUATE COURSES

301a. *Law and Society*: Miss Leighton.

302b. *Law, Policy and Personality*: Miss Leighton.

303a. *Problems in International Politics*: Mr Kennedy.

304b. *West European Integration*: Mr Frye.

[306b. *The Problem of Power in Contemporary Society*:
Mr Bachrach, Mr Baratz.]

308a. *American Political Theory*: Mr Bachrach.

[309b. *Selected Topics in Modern Political Thought*: Mr Frye.]

312b. *China and Japan: 1840 to the Present*: Mr Kennedy.

[313b. *Problems in Constitutional Law*: Mr Bachrach.]

[314a. *Methodology in Political Science*: Mr Frye.]

315b. *American Bureaucracy*: Mr Bachrach.

316b. *Urban Affairs*: Mr Lyke.

Psychology

Professors: Morton Edward Bitterman PHD *Chairman*

Rachel Dunaway Cox PHD

Associate Professors: Robert Simon Davidon PHD

Richard Charles Gonzalez PHD

Assistant Professor: Earl Thomas PHD

Lecturer: Erika Rossman Behrend MA

Appointment to be announced.

Special Requirements for Graduate Work

(for the general requirements, see pages 16-18)

Prerequisites. Undergraduate training in Psychology is recommended, but outstanding applicants with training only in related fields may be accepted. Students who have not majored in Psychology as undergraduates may find it necessary to devote a substantial portion of the first year to undergraduate courses. All applicants residing in the United States at the time of the application must submit a score on the Miller Analogies Test and on the Aptitude Test and Advanced Test of the Graduate Record Examinations.

Major and Allied Subjects. The orientation in the various fields is experimental, and there are no facilities for clinical training. Work in Psychology may be coordinated with work in one of the following allied areas: Anthropology, Biology, Chemistry, Mathematics, Philosophy and Physics. Students interested primarily in Child Psychology normally major in Education and Child Development.

Language Requirements. Candidates for the M.A. must pass an examination in one of the following languages: French, German, Russian. Candidates for the Ph.D. must pass examinations in two of the three languages. In special cases, Italian or Spanish may be offered as one of the two languages.

Program and Examinations for the M.A. The program of work must include three units (six one-semester seminars or courses), which usually will be chosen from the group of seminars and courses listed below. Sometime before final approval of the Master's paper, each candidate must pass a written examination in Statistics. The Final Oral Examination, one hour in length, deals with the Master's paper and related topics.

Program and Examination for the Ph.D. Candidates are expected to devote a large portion of their time to supervised research. Each

BRYN MAWR COLLEGE

must pass a written examination in Statistics. The Preliminary Examination consists of written papers in the four areas listed below under the heading of Graduate Seminars, or, with the approval of the Department, in three of those areas and in one of the allied subjects listed above. The Final Oral Examination deals with the dissertation and the field in which it was written.

GRADUATE SEMINARS

Seminars are offered in the following four areas:

Comparative Psychology

Learning

Sensory Processes and Perception

Brain Mechanisms

Statistics (Graduate Course)

SELECTED UNDERGRADUATE COURSES

201a. *Animal Learning*: Mr Bitterman.

[201b. *Human Learning*: Mr Gonzalez.]

202a. *Experimental Methods and Statistics*: Mrs Behrend.

301a. *Central Nervous System and Behavior*: Mr Thomas.

301b. *Sensory Processes*: Mr Thomas.

305a. *Perception*: Mr Davidon.

306b. *Psychological Measurement*: Mr Davidon.

Russian

Professor: Frances de Graaff PHD *Chairman*

Assistant Professors: Irene Nagurski PHD

Ruth L. Pearce PHD

Associate Professor of Philosophy: George L. Kline PHD¹

Special Requirements for Graduate Work

(for the general requirements, see pages 16-18)

Prerequisites. An undergraduate major or minor in Russian with knowledge of Russian Literature and ability to read and speak Russian.

¹ On leave, semester I, 1967-8.

Allied Subjects. Any language or literature, European History, Political Science.

Language Requirements. For the M.A., French or German. For the Ph.D., French, German and one Slavic language besides Russian.

Program and Examination for the M.A. Three units of work in Russian or in Russian and an allied field. The Final Examination consists of a three-hour written examination and an oral examination of one hour.

Examination for the Ph.D. The Preliminary Examination consists of four written papers, one of which must be taken in an allied field, and an oral examination. The Final Examination will cover the field of the dissertation.

SEMINARS

Seminars offered are selected from the following:

Miss de Graaff:

Serbo-Croatian Language and Literature.
Pushkin and Lermontov.
Chekhov and Gorki.

Miss Nagurski:

Polish Language and Literature.
Tolstoy and Dostoevsky.

Mrs Pearce:

History of the Russian Language.
Old Church Slavonic.

Mr Kline:

Russian Philosophy.

SELECTED UNDERGRADUATE COURSES

201. *Readings in Russian Literature:* Miss de Graaff.
- [302. *Pushkin and His Time:* Miss Nagurski.]
303. *Russian Literature of the Twentieth Century:* Miss de Graaff.
- [43-44. (Haverford College) *History of Russia:* Mrs Gerstein.]

Social Work and Social Research

*The Carola Woerishoffer Graduate Department
of Social Work and Social Research*

Professors: Katherine D. K. Lower PHD
Director of the Department

Bernard Ross PHD
Associate Director

Associate Professors: Jean Haring DSW¹
Jane Collier Kronick PHD
Philip Lichtenberg PHD¹
Jeanne Pollock MSW
Martin Rein PHD

Assistant Professors: Merle Broberg MSS
Ronald M. Feinstein MSW
Edmund Sherman PHD
William W. Vosburgh PHD
Greta Zybon DSW

Lecturer: Ruth O. Stallfort MS

Instructors: Dolores G. Norton MSS
Frank S. Seever MSW

Special Lecturers: John Paul Brady MD
Harry D. Karpeles DSW
John H. Vanderzel PHD

Professor of Education and Psychology: Rachel D. Cox PHD

Professor of Sociology: Eugene V. Schneider PHD

Special Requirements for Graduate Work
(for the general requirements, see pages 16-18)

The degrees of Doctor of Philosophy and Master of Social Service are awarded in the Department. The program for the degree of Master of Social Service is described on page 18. The statement here refers to the Ph.D. in Social Work and Social Research. For full information, including courses offered, write to the Director, 815 New Gulph Road, Bryn Mawr, Pennsylvania 19010.

¹ On leave, 1967-8.

The curriculum for the Ph.D. degree includes the following areas of study: Social Welfare, Theory in Social Work Practice, Social and Behavioral Sciences, and Social Research.

Preparation in these four areas is implemented through required courses, accounting for about one half of the program; through electives that are considered pertinent to individual interests, which may be taken in other departments within the College, or at other colleges or universities; and through special experiences that are directed toward specific career goals, including teaching and research assistantships. Candidates select a major field within one of the four areas of the curriculum and allied fields from the other areas. Qualified students participate in research under the direction of members of the faculty.

Prerequisites. Applicants for the Ph.D. are expected to hold a Master's degree from an accredited school of social work. Successful experience in social work practice after this degree is valued but in certain situations may not be required.

Language Requirement. A reading knowledge of one modern foreign language is required. The preferred language is French but in special cases, with the approval of the Department, another language may be substituted.

General Requirements. The program of study is individually planned to cover major and allied fields. Two academic years of full-time study encompassing fourteen semester courses will normally be suggested. The Preliminary Examination in major and allied fields consists of four written papers and an oral examination testing the candidate's general knowledge of the fields. The Final Examination which is oral is devoted to the subject of the dissertation.

Sociology

Professor: Eugene V. Schneider PHD *Chairman*

Assistant Professor: Judith Porter PHD

Associate Professor of Social Work: Jane Collier Kronick PHD

Special Requirements for Graduate Work
(for the general requirements, see pages 16-18)

Prerequisites. A good undergraduate preparation in Sociology, or some closely related social science is desirable. Students whose

undergraduate training is not entirely adequate may be required to take certain undergraduate courses. Advanced undergraduate courses can usually be taken for graduate credit.

Major and Allied Subjects. Students are encouraged to take some work in allied fields: Anthropology, Economics, Psychology, Political Science, Philosophy, History and Statistics. In addition, courses in Sociology and allied subjects may be taken at the University of Pennsylvania under the terms of the Reciprocal Plan.

Language and Statistics Requirement. Candidates for the M.A. must offer one modern language and statistics. Candidates for the Ph.D. must offer German and French, except in special cases, and statistics. The statistics requirement may be met by taking a special examination or by passing a course in Statistics with a grade equivalent to a "B".

Program and Examination for the M.A. The program consists of three units of work. The Final Examination may consist of one four-hour written paper, or one three-hour written paper and an oral examination of one hour.

Program and Examination for the Ph.D. The Preliminary Examination for candidates for the Ph.D. will consist of four three-hour written papers and an oral examination of one hour. These examinations will be in General Sociology, Sociological Theory, and two special fields, one of which may be an allied field. The Final Examination will cover the field of the dissertation.

SEMINARS

Seminars will be given in special branches of Sociology, such as:

Sociological Theory
Social Stratification
Sociology of Religion

Sociology of Knowledge
Industrial Sociology
Race Relations

SELECTED UNDERGRADUATE COURSES

- 205b. *Social Stratification*: Mr Schneider.
- 207a. *Race Relations*: Mrs Porter.
- 209b. *Sociology of Religion*: Mrs Porter.
- 302a. *Social Theory*: Mr Schneider.

Spanish

Professor: Joaquín González Muela *D en FL*

Associate Professor: Willard Fahrenkamp King *PHD Chairman*

Assistant Professor: Phyllis Turnbull *D en FL*

Lecturer: Eleanor Krane Paucker *PHD*

Dean of the College: Dorothy Nepper Marshall *PHD*

Professor of Philosophy: José María Ferrater Mora *Lic FL*

Special Requirements for Graduate Work

(for the general requirements, see pages 16-18)

Prerequisites. An undergraduate major in Spanish; representative reading from Spanish Literature of the Middle Ages, Golden Age and Contemporary Period. Spanish-American Literature may be offered in addition. Applicants for admission in Spanish are asked to submit scores in the Aptitude Test and Advanced Test of the Graduate Record Examinations.

Allied Subjects. Any literature, ancient or modern, including Mediaeval Latin Literature; European or Spanish-American History; Classical or Romance Philology.

Language Requirements. For the M.A. either German or one Romance language other than Spanish. For the Ph.D. German and French; in special cases the Department may accept other languages. The Ph.D. candidate's preparation must give evidence of adequate knowledge of Latin; if it does not, Latin must be included in the graduate program.

Program and Examination for the M.A. The program consists of three units of graduate work in Spanish or two units of graduate work in Spanish and one other in an allied field. Before admission to the Final Examination candidates must prove their ability to speak Spanish. The Final Examination consists of a three-hour written part and an oral of one hour.

Examinations for the Ph.D. The Preliminary Examination consists of four written papers, one of which must be taken in an allied field, and an oral examination. Suitable related fields should be discussed with the member of the Department with whom the candidate plans to work on the dissertation. The Final Examination will cover the field of the dissertation.

SEMINARS

The seminars are arranged to allow the widest possible choice for students over a two- or three-year period of study. Normally the same seminar will not be given two years in succession. Two from among the following will be given every year.

Members of the Department.

[Ideological Currents in Renaissance Spain.]

The History of the Spanish Language. (semester I)

The Mediaeval Castilian Epic and Lyric. (semester II)

Prose Fiction of the Golden Age.

From *La Celestina* to *El Criticón*. (semester I and II)

[The Poetry of the Golden Age.]

The evolution of Spanish poetry from Garcilaso to Góngora.

[Problems in the Golden Age Theater.]

Studies in Modern Spanish Literature. (semesters I and II)

The 19th-century novel, with special attention to Valera, Galdós, Pardo-Bazán, and Pereda.

SELECTED UNDERGRADUATE COURSES

302a. *Mediaeval Spanish Literature:* Miss Turnbull.

303a. *Modern Novel in Spain:* Mrs King.

303b. *Modern Spanish Poetry:* Mr González Muela.

[304a. *The Age of Cervantes:* Mr González Muela.]

[304b. *Drama of the Golden Age:* Mrs King.]

Fees

The tuition fee for graduate students is \$1500 a year, payable one half early in the first semester and the other half early in the second semester.

For students registered for part-time work the fee for each course, seminar, or unit of supervised work, is \$500 a year or \$250 a semester.

Fees for auditors are the same as for students registered in courses for credit.

Students taking undergraduate courses in the sciences (not for graduate credit) are charged laboratory fees at \$15 per course per semester.

Ph.D. candidates who have completed the required academic units and who are continuing independent work on their dissertations either in the vicinity of the Graduate School or in other places must retain their enrollment and degree candidacy by registering for one or more units each semester or by paying a continuing enrollment fee of \$25 each semester.

Students may, with the approval of their department, apply to the Graduate Committee for a leave of absence for one or more semesters. No fee is required while on leave of absence.

Fees for Ph.D. candidates using Bryn Mawr College laboratories for dissertation research will be determined in consultation with each department.

The graduation fee for Doctors of Philosophy, Masters of Arts, and Masters of Social Service is \$20.

No reduction of the tuition fee will be made on account of absence, withdrawal after classes have begun, dismissal or for any other reason, except involuntary service in the armed forces of the United States.

Students whose fees are not paid before November 15 in the first semester and before March 15 in the second semester will not be permitted to continue in residence or to attend classes.

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SUMMARY OF EXPENSES FOR THE ACADEMIC YEAR

Regular

Tuition Fee	\$1500
Residence in the Graduate Residence Center	1000

Contingent

Continuing Enrollment Fee	50
Dispensary Fee	25
Health Insurance (foreign students)	45
Social Work Field Instruction Fee	20
Laboratory Fee for undergraduate courses (not for graduate credit), per course	30
Graduation Fee	20
Charge for microfilming Ph.D. dissertation	30
Room on campus Christmas and spring vacations (\$1.50 per day—maximum 30 days)	45

Exclusion

The College reserves the right to exclude at any time students whose academic standing is unsatisfactory or whose conduct renders them undesirable members of the college community. In such cases fees due or paid in advance will not be refunded or remitted in whole or in part; fellowships and scholarships will be cancelled.

Fellowships and Graduate Scholarships

Fellowships and graduate scholarships are provided from the general funds of the College, from the gifts of generous donors, from government agencies and private foundations. Many of these awards are available to both men and women. Some may be granted only to women. Fellowships carry a stipend of \$3000 and are available only to students who are citizens of the United States or Canada and who have completed one full year of graduate work. Scholarships have a value of \$2300 a year and may be held by citizens and non-citizens and by students at all levels of graduate work.

Application

Application from citizens of the United States and Canada should be made to the Dean of the Graduate School and must be filed complete not later than February 15. The documents are the same as for admission. In writing for forms applicants should state their fields of concentration. Awards are announced in late March and recipients should signify their acceptance or refusal by April 15. Applications from foreign students must be received not later than January 25. Test of English as a Foreign Language score must be included. Therefore this test, or an appropriate substitute, must be taken in October. Awards will be announced in March. There are at present no awards other than Graduate Assistantships available for foreign men students.

Fellowships in the Award of the College

Fellowships of \$3000 each are offered annually in Anthropology, Biology, Chemistry, Classical and Near Eastern Archaeology, Economics, Education and Child Development, English, French, Geology, German, Greek, History, History of Art, Latin, Mathematics, Mediaeval Studies, Music, Philosophy, Physics, Political Science, Psychology, Russian, Social Work and Social Research, Sociology, and Spanish.

The Theodore N. Ely Fund. A fellowship or scholarship in Art or Archaeology is awarded to a woman graduate student from the inter-

est on this fund, which was established in 1959 by bequest of Katrina Ely Tiffany, Class of 1897.

The Margaret Gilman Fund. A fellowship or scholarship in French, open to both men and women, is awarded from the interest on this fund, which was established in 1958 by bequest of the late Margaret Gilman, Professor of French at Bryn Mawr College.

The Howard Lehman Goodhart Fellowship is awarded to an advanced student, man or woman, in Mediaeval Studies.

The Helen Schaeffer Huff Memorial Research Fellowship is awarded for a year of research work in Physics or Chemistry at Bryn Mawr College. Candidates must be women who have demonstrated their ability for research. If other qualifications are equal among a number of candidates, preference will be given to a woman whose field of research overlaps the fields of Chemistry and Physics. This fellowship is normally awarded to a post-doctoral candidate to enable her to continue her research program. In such cases the stipend will be \$4500. In exceptional cases, candidates engaged in important research who have not completed the work for the doctorate will be considered. For such students the stipend will be less, the amount to be determined on the basis of the candidate's qualifications.

The Helen Schaeffer Huff Memorial Research Fellow has no duties except those connected with her own research, but she may arrange with the department in which she is working to do a small amount of teaching if she so desires.

The S. Maude Kaemmerling Scholarship was established in 1959 by a gift from the estate of S. Maude Kaemmerling and increased by a gift in 1965. The income on the fund is to be used for graduate scholarships and fellowships for men and women.

The Samuel H. Kress Foundation Fellowships in varying amounts are awarded to advanced men and women graduate students in History of Art.

The Katharine Elizabeth McBride Fellowship. In the 75th Anniversary Year a fund for a graduate fellowship in honor of Katharine Elizabeth McBride, President of the College, was established by gifts from a few friends of Miss McBride among the alumnae. The endowment of this fellowship was increased by a gift from the Class of 1925 on its 40th reunion. The fellowship is awarded in any department to a woman candidate for the Ph.D. degree who is about to complete two years or more of graduate work.

National Defense Graduate Fellowships under Title IV of the National Defense Education Act are available to citizens of the United States who plan to work for the Ph.D. degree and enter a career of college teaching. These Fellowships are designed primarily for first year students, men and women, and may be held in the departments of Biology, Chemistry, Classical and Near Eastern Archaeology,

French, German, Greek, Latin, Mathematics, Philosophy, Psychology and Spanish.

The Emmy Noether Fellowship was founded by gifts from many donors in memory of Emmy Noether who came to Bryn Mawr College from Germany in 1933 and who died April 14, 1935. It is open to women in the United States and in foreign countries who are advanced graduate students of Mathematics. It is awarded by the Department of Mathematics in Bryn Mawr College, and may be used, subject to the approval of the Department, at any institution in the United States or in a foreign country.

The Ida H. Ogilvie Fellowships in Geology are awarded to men and women each year from part of the income of the Ida H. Ogilvie Fund, which was established in 1965 through the bequest of Dr. Ogilvie, a member of the Class of 1896.

The Max Richter Fellowship Fund was established in 1962 and increased in 1965 by gifts from the Trustees of the Richter Memorial Foundation. Income from the endowment provides two or more fellowships to advanced women students interested in political affairs.

The Mildred Clarke Pressinger von Kienbusch Fellowship was established in 1964 by a gift in honor of Mildred Clarke Pressinger von Kienbusch of the Class of 1909. The income on this fund is to be used for a woman graduate student working toward the doctorate. This award may be made to a beginning graduate student.

Scholarships and Fellowships under the Plan for the Coordination of the Sciences. The Departments of the natural sciences and mathematics administer a fund for the Coordination of the Sciences, given to the College in 1935 by the Carnegie Corporation of New York. Its purpose is to encourage and facilitate teaching and research in fields such as biochemistry, biophysics, geochemistry, geophysics and psychophysics.

From this fund, the Committee for the Coordination of the Sciences awards fellowships, scholarships, assistantships, post-doctoral research fellowships or other grants as seem appropriate.

Fellows by Courtesy. Fellows who continue their studies at the College after the expiration of their fellowships may, by a vote of the Directors, receive the rank of Fellow by Courtesy.

Travelling Fellowships

The Fanny Bullock Workman Travelling Fellowship for a year of study or research abroad was established in 1927 by bequest of Fanny Bullock Workman and by gift of her husband, Dr W. Hunter Workman. It is awarded to a woman who is a candidate for the degree of Doctor of Philosophy at Bryn Mawr College and who

could not have the advantages of such a year without assistance. At the discretion of the Faculty, the fellowship for any one year may be divided between two students, or the same student may hold the fellowship for more than one year.

The Anna Ottendorfer Memorial Research Fellowship in Teutonic Philology and German Language and Literature, founded in 1907 by Mrs Anna Woerishoffer in memory of her mother, is to be applied to the expenses of study and residence for one year at a German university. It is awarded annually to a candidate who has completed at least one year of graduate study at Bryn Mawr College, and who shows ability to conduct independent investigations in the fields of Teutonic Philology or German Literature. The choice of a university is determined by the holder's preference, subject to the approval of the Faculty.

The Ella Riegel Fellowship or Scholarship in Classical Archaeology was founded in 1937 by bequest of Ella Riegel. It is awarded on the recommendation of the Department of Classical and Near Eastern Archaeology to advanced students in this subject. It is given for study abroad but may, at the discretion of the Department, be used at Bryn Mawr College.

Training Grants

National Science Foundation Graduate Traineeships. Traineeships are available to first-year and advanced graduate students, men and women, in mathematics, the natural sciences and certain fields in the social sciences.

Training Grants. The Department of Biology has in its award a training grant from the United States Public Health Service for study in the area of infectious diseases, which provides stipends for graduate students.

Fellowships and Scholarships in Social Work and Social Research

The Carola Woerishoffer Fellowship in Social Work and Social Research is offered annually to a woman student in the advanced program in the Department.

The Carola Woerishoffer Scholarship in Social Work and Social Research is offered annually to a woman student in the Department.

Agency Fellowships and Scholarships. A number of scholarships ranging in value from \$500 to \$2400 are offered by various agencies

in Philadelphia and vicinity to second-year graduate students, men and women, who wish to be candidates for the degree of Master of Social Service. These agency scholarships and fellowships frequently call for field work placement in the agency giving the grant, and in some cases require an agreement relative to employment for one year following the holding of a grant.

Federal Stipends. Through grants from the United States Public Health Service, the Department offers traineeships of \$1800 for first-year students, and \$2000 for second-year students, to both men and women. The holders of such stipends must have career objectives in psychiatric social work.

Through grants from the Vocational Rehabilitation Administration, the Department offers traineeships of \$1800 and \$2000 (plus the cost of tuition) for first- and second-year students respectively. Holders of such stipends must have career objectives in rehabilitation. Traineeships of \$2400 for the third year and \$3600 for the fourth year of study (plus the cost of tuition) are also available from the United States Public Health Service to advanced students who meet certain requirements and are beginning work for the Ph.D. Application to the Department for such traineeships must be made by November 1 of the year preceding the proposed year of study.

Susan M. Kingsbury Research Assistantship, a research assistantship of the value of \$2200 with remission of tuition, will be granted to an advanced student, preferably a candidate for the degree of Doctor of Philosophy, who from either training or experience has knowledge of methods and techniques in social research. The holder of the Assistantship will give one-half time to the research of the Department, and one-half time to study and is not permitted to hold any other paid position.

Graduate Scholarships

Graduate Scholarships are offered annually to men and women for work in any department of the Graduate School. Women holders of these scholarships in their first year of graduate work at Bryn Mawr are required to live at the Graduate Residence Center. Others may elect to do so. The stipend covers tuition and part of the residence charges. Scholars who have had a full year at Bryn Mawr may live off campus. In that case tuition and dispensary fees will be deducted from the stipend and the balance paid the student.

Alumnae Association Scholarships. The Alumnae Association Scholarship is provided from the contributions of former graduate students to the Alumnae Fund. District V of the Alumnae Association and the Bryn Mawr College Canadian Scholarship Committee each assist in the support of a Bryn Mawr scholar.

Tuition Scholarships. Scholarships providing free tuition are available to men and women whose homes are in the neighborhood.

Scholarships for Foreign Women. The Marguerite N. Farley Scholarships for Foreign Women, of the value of \$2500, are offered to women from any country outside the United States and Canada. Five scholarships are available.

A Special British Scholarship, of the value of \$2500, is awarded to women students from the United Kingdom sponsored by The English-Speaking Union.

Special Foreign Scholarships for French, German, Italian and Spanish, of \$2600 each, have been established for women students whose languages form part of the Bryn Mawr curriculum. Holders of these scholarships are asked to devote four or five hours a week to supervised teaching or other assistance in the appropriate language department. The Special Scholarship for French has been named in memory of Marcelle Pardé who was a member of the French Department of Bryn Mawr College between 1919 and 1929. The Special Scholarship for Spanish has been named in memory of Miguel Catalan, distinguished Spanish physicist and friend of Bryn Mawr.

These scholarships are designated for foreign women who have excelled in their university studies. Applicants must have had three or four years of university training. Each scholarship carries a stipend which covers full tuition and residence in the Graduate Residence Center during the academic year. (Vacations are not included and students will need to provide additional funds for these and for other non-college expenses.) A student who holds a scholarship for a second year may live off campus if she prefers. Scholarship holders are expected to carry a full program of graduate work and to attend regularly the courses for which they are registered. Work is given in seminars or small discussion groups in which the students, as well as the instructor, actively participate. It is essential, therefore, that the student be able not only to read and write English, but to understand it and speak it fluently.

Grants-in-Aid

Contributions to the Alumnae Fund by former graduate students have placed at the disposal of the Graduate Scholarships Committee a small fund for grants-in-aid. These grants, not to exceed \$400, are given on the basis of need to holders of Bryn Mawr College scholarships to help them meet college expenses. Application forms may be obtained from the Graduate Office; they should be submitted by April 1 for spring awards and by September 1 for awards to be made in the fall.

Regulations for Fellows and Scholars

All holders of fellowships and scholarships are required to carry a full program of graduate work. Holders of fellowships are expected to give as much as an hour and a half a week to special work for their departments, and are not permitted to accept any other appointments. Holders of scholarships may, with the approval of the Dean of the Graduate School, make their own arrangements to do a limited amount of paid work. Each Travelling Fellow is asked to present a written report of the work done during the fellowship year. This report should be sent about the first of March to the Dean of the Graduate School for transmittal to the student's department.

Graduate Assistantships

Teaching Assistantships are available in many departments. These positions carry salaries of \$2100-\$2300 for half-time work, \$1400-\$1550 for one-third time work, and include tuition without fee. The duties differ with departments. In departments of science, assistantships provide teaching and laboratory experience.

Research Assistantships are available in the Departments of Biology, Chemistry, Physics, Psychology and Social Work. The Department of Geology offers the J. H. Fitzgerald Dunning Research Assistantship.

Tuition Grants for Part-time Students

A grant from the Samuel S. Fels Fund for three years, beginning in 1967, has doubled the funds available to assist men and women students who are unable to undertake full-time graduate work. Awards will be made, primarily for tuition, on the basis of high academic standing. Applications are due April 1 for awards to be made in the late spring and September 1 for those to be made in the early fall. Forms are available at the Graduate Office.

Graduate Prize

The Susan B. Anthony Memorial Prize, commemorating the great work of Susan B. Anthony for women, was founded by her friend, Anna Howard Shaw, and her niece, Lucy E. Anthony. It is offered from time to time to a graduate student at Bryn Mawr College who has published or submitted in final form for publication the best study dealing with the industrial, social, economic or political position of women. The award is made by the Committee of which the President of the College is chairman.

Loan Funds

National Defense Student Loan Program—NDEA Title II. Loans up to \$2500 a year are available to qualified graduate students under this Title. They are open to half-time as well as full-time students. Partial loan cancellation is offered to prospective teachers. For information write to the Dean of the Graduate School.

The Students' Loan Fund of the Alumnae Association of Bryn Mawr College was founded by the Class of 1890 for the use of students who need to borrow money in order to continue their college work and for the purpose of receiving contributions, no matter how small, from those who are interested in helping students obtain an education. The fund is managed by the Alumnae Scholarships and Loan Fund Committee.

Loans may be used for any purpose approved by the Committee, who strongly recommend the borrowing of small sums to relieve undue financial pressure, or to meet special emergencies. As a rule, money is not loaned to students in their first semester of graduate work. Not more than \$500 may be borrowed by a student in any one year, except under extraordinary circumstances. The total for four years must not exceed \$1500.

While the student is in College no interest is charged; after the student leaves College the interest rate is three per cent. The entire principal must be repaid within five years from the time the student leaves College at the rate of twenty per cent each year. Students who wish to borrow from the Loan Fund may obtain application blanks for this purpose from the Alumnae Office, The Deanery, Bryn Mawr, Pennsylvania.

The Mary Hill Swope Loan Fund was established June 1, 1945 by a gift of Mrs Gerard Swope (Mary Hill, A.B. 1896) to assist in the education of young women attending Bryn Mawr College. These loans are administered under the terms of the grant by a special committee appointed by the President of the College. Students undertake a moral obligation to repay the amount loaned with or without interest if in after years they are in a position to do so.

The Bureau of Recommendations

The College conducts a Bureau of Recommendations for alumnae, students, and former students. This Bureau offers an employment service for permanent, temporary, and part-time positions; gives assistance in choosing a vocation; and acts as a clearing house for letters of recommendation for those who have registered with the Bureau. These letters will be sent, upon request, to prospective employers, placement offices of other colleges, and employment agencies.

Government regulations severely limit the employment of students of foreign citizenship in the United States.

The Graduate Residence Center

Residence for forty-five graduate students is provided in the Graduate Residence Center which lies at the north end of the campus. Meals and health service are included in the residence charge. There is a separate bedroom for each student, furnished except for rugs and curtains; bed linen, including blankets, is provided but students should bring towels. Because of college fire regulations, smoking is not permitted in the bedrooms but there is a smoker on each floor. The dining room, which seats sixty, is open to students living outside the Center who wish to lunch or dine there.

Application for a room should be made as early as possible. A room contract, which will be sent upon request, must be signed and returned with a deposit of ten dollars to the Dean of the Graduate School. The deposit will be deducted from the residence fee; it will not be refunded under any circumstances.

A student who has reserved a room in the Graduate Center will be held responsible for the residence charge unless notice of withdrawal is sent in writing to the Dean of the Graduate School before September 1.

The regular charge for residence (room, board and health service) for graduate students is \$1000 a year, payable one half early in the first semester and the other half early in the second. Allowance cannot be made for dietary restrictions.

Residence in the Center is for the academic year only—from the opening of College in the fall until Commencement Day. One of the residence halls is kept open during Christmas and spring vacations where students may stay at a charge of \$1.50 a day (meals not included). Baggage will be accepted at the College after September 5. It should be sent prepaid, addressed to the Graduate Center, and marked with the owner's name.

Health

The College maintains a modern 22-bed Infirmary with a full staff of physicians and nurses. The college physicians may be consulted without charge by students residing in the Graduate Center and students living off campus who have paid the dispensary fee. Specialists practicing in Bryn Mawr and Philadelphia serve as consulting physicians to the College. If consultation is necessary, the student must meet the expense. The Infirmary is open when College is in session and in the spring vacation. It is closed during the Christmas vacation.

The residence charge paid by graduate students living in the Graduate Residence Center entitles them to treatment in the College dispensary, and to care in the Infirmary for seven days (not necessarily consecutive) during the year, to attendance by the college physicians during this time, and to nursing, provided the illness is not contagious and is not sufficiently serious to require the services of a special nurse. After the seven day period, the fee is \$15.00 for each day in the Infirmary. In case of contagious disease, special nursing is obligatory and the student must meet the expense.

Graduate students who do not live in the Graduate Residence Center may pay a \$25.00 fee which entitles them to unlimited dispensary care and consultation with the college physicians. Graduate students who do not live in the Graduate Residence Center are not given bed care in the Infirmary.

The College reserves the right, if members of the family cannot be reached, to make decisions concerning emergency operations or other matters of health in regard to the students.

Certificates Required

All graduate students, whether resident or non-resident, must file a physician's certificate stating that they have been vaccinated against smallpox during the three year period prior to entering the Graduate School and exhibited a typical or immune reaction to this vaccination. Resident students who have not filed this certificate will be vaccinated on arrival and charged a fee of one dollar. Non-resident students will not be permitted to register without this certificate. There is no exception to this rule.

In addition to the above, students applying for residence in the Graduate Residence Center are asked to submit reports of recent

medical and ophthalmological examinations signed by the appropriate physicians; evidence of immunization within three years of entrance against diphtheria and tetanus, by toxoid, and against poliomyelitis. A report of a Mantoux test is also required; if this is positive, the results of a chest X-ray must be submitted. The forms for these various certificates are supplied by the Office of the Dean of the Graduate School and are to be returned to the same office. If they have not been received by the time the student arrives in Bryn Mawr, the tests will be done here at the student's expense.

Any student with a health problem identified by his personal physician on the entering health form will be evaluated by the College Physician who will initiate such health supervision or consultation as is necessary.

Insurance

All graduate students of Bryn Mawr College are entitled to subscribe to the Student's Reimbursement Plan, which provides for a substantial proportion of hospital care and medical fees. The premium for this insurance is \$27.80 for a full year starting October 1. Students should apply to the Comptroller of the College.

Foreign Students. The College also makes available a policy which provides much more adequate coverage of medical, surgical, and hospital costs. This insurance is required of all students whose permanent residence is not in the United States unless they have equally complete protection of another kind effective in the United States. The cost for students under age 30 is about \$45.00 for a twelve-month period, starting in mid-September.

Faculty and Staff in the Graduate School *for the Academic Year 1967/1968*

Katharine Elizabeth McBride PHD (Bryn Mawr College) LLD LHD
SCD President of the College

Elizabeth Read Foster PHD (Yale University) *Dean of the Graduate School*

Dorothy Nepper Marshall PHD (Bryn Mawr College) *Dean of the College*

Janet Margaret Agnew BLS (McGill University) MA (University of Manitoba) *Head Librarian*

Joseph A. Airo-Farulla MA (University of Washington) *Lecturer in History*

Herbert L. Alexander MA (Yale University) *Assistant Professor of Anthropology*

Horace Alwyne FRMCM (Royal Manchester College of Music)
Professor Emeritus of Music

Alison Anderson PHD (University of Pennsylvania) *Part-time Instructor-elect in Linguistics*

Jay Martin Anderson PHD (Harvard University) *Assistant Professor and Associate Professor-elect of Chemistry*

Peter Bachrach PHD (Harvard University) *Professor of Political Science*

Hans Bänziger PHD (University of Zurich) *Visiting Lecturer in German*

Morton Sachs Baratz PHD (Yale University) *Professor of Economics*

Audrey Barnett PHD (Indiana University) *Assistant Professor of Biology*

Erika Rossman Behrend MA (University of Pennsylvania) *Part-time Lecturer in Psychology*

Ernst Berliner PHD (Harvard University) *W. Alton Jones Professor of Chemistry*

Frances Bondhus Berliner PHD (Bryn Mawr College) *Part-time Lecturer in Chemistry*

BRYN MAWR COLLEGE

- L. Joe Berry PHD (University of Texas) *Professor of Biology and Secretary of the Faculty*¹
- Morton Edward Bitterman PHD (Cornell University) *Professor of Psychology*
- Thomas H. Blackburn PHD (Stanford University) *Visiting Lecturer in English, semester II*
- Eleanor A. Bliss SCD (Johns Hopkins University) *SCD Dean Emeritus*
- Ethan D. Bolker PHD (Harvard University) *Assistant Professor of Mathematics*²
- Nancy Bookidis PHD (Bryn Mawr College) *Part-time Instructor-elect in Classical and Near Eastern Archaeology, semester II*
- John Paul Brady MD (Boston University) *Visiting Lecturer in Social Work and Social Research*
- Charles M. Brand PHD (Harvard University) *Assistant Professor of History*
- Merle Broberg MSS (Bryn Mawr College) *Assistant Professor of Social Work and Social Research*
- Robert B. Burlin PHD (Yale University) *Assistant Professor and Associate Professor-elect of English*
- Robert Hawes Butman MA (University of North Carolina) *Associate Professor of English on the Theresa Helburn Fund and Director of the Theatre, on joint appointment with Haverford*
- Rhys Carpenter PHD (Columbia University) *LITTD Professor Emeritus of Classical Archaeology*
- Isabelle Cazeaux PHD (Columbia University) *Assistant Professor of Music*
- Irene A. Clayton MS (University of Wisconsin) *Director of Physical Education*
- Robert L. Conner PHD (Indiana University) *Professor of Biology*
- Rachel D. Cox PHD (University of Pennsylvania) *Professor of Education and Psychology*
- Maria Luisa B. Crawford PHD (University of California) *Assistant Professor of Geology*
- William A. Crawford PHD (University of California) *Assistant Professor of Geology*
- Roger William Cummins MA (University of Minnesota) *Lecturer in English*
- Frederic Cunningham, Jr. PHD (Harvard University) *Associate Professor of Mathematics*
- William H. Davenport PHD (Yale University) *Visiting Lecturer in Anthropology*

¹ On leave, semester I, 1967-8.

² On leave, 1967-8.

FACULTY AND STAFF

- Robert Simon Davidson PHD (University of Pennsylvania) *Associate Professor of Psychology*
- Frances de Graaff PHD (University of Leyden) *Professor of Russian*
- Frederica de Laguna PHD (Columbia University) *Professor of Anthropology*
- Grace Mead Andrus de Laguna PHD (Cornell University) *Professor Emeritus of Philosophy*
- Charles G. Dempsey PHD (Princeton University) *Assistant Professor of History of Art*
- Gregory W. Dickerson MA (Princeton University) *Instructor-elect in Latin and Greek*
- Max Diez PHD (University of Texas) *Professor Emeritus of German Literature*
- Nancy C. Dorian PHD (University of Michigan) *Assistant Professor of German¹*
- Lincoln Dryden PHD (Johns Hopkins University) *Professor of Geology*
- Richard B. Du Boff PHD (University of Pennsylvania) *Assistant Professor of Economics*
- Arthur P. Dudden PHD (University of Michigan) *Professor of History*
- Mary Maples Dunn PHD (Bryn Mawr College) *Assistant Professor of History*
- Morton S. Enslin THD (Harvard University) *DD Visiting Lecturer in History of Religion*
- Ronald Feinstein MSW (University of Illinois) *Assistant Professor-elect of Social Work and Social Research*
- Charles Ghèquière Fenwick PHD (Johns Hopkins University) *LLD Professor Emeritus of Political Science*
- José María Ferrater Mora *Licenciado en Filosofía* (University of Barcelona) *Professor of Philosophy*
- Elizabeth Read Foster PHD (Yale University) *Dean of the Graduate School and Professor of History*
- Grace Frank AB (University of Chicago) *Professor Emeritus of Old French*
- Charles E. Frye PHD (Princeton University) *Assistant Professor of Political Science*
- Mary Summerfield Gardiner PHD (Bryn Mawr College) *Professor Emeritus of Biology*
- Ellen Ginsberg PHD (University of Chicago) *Assistant Professor of French*
- Richard C. Gonzalez PHD (University of Maryland) *Associate Professor of Psychology*

¹ On leave, 1967-8.

BRYN MAWR COLLEGE

- Joaquin González Muela *D en F L* (University of Madrid) *Professor of Spanish*
- Jane C. Goodale PHD (University of Pennsylvania) *Assistant Professor of Anthropology*¹
- Robert L. Goodale BMUS (Yale University) AAGO *Alice Carter Dickerman Professor of Music*
- Michael Guggenheim PHD (Yale University) *Associate Professor and Professor-elect of French*
- Anne Coffin Hanson PHD (Bryn Mawr College) *Assistant Professor of History of Art*¹
- Jean D. Haring DSW (Western Reserve University) *Associate Professor of Social Work and Social Research*¹
- Stephen Joseph Herben BLITT PHD (Princeton University) *Professor Emeritus of English Philology*
- Katherine L. Holli MA (Middlebury College) *Instructor-elect in German*
- William G. Hopkins PHD (Indiana University) *Assistant Professor of Biology*
- Rosalie C. Hoyt PHD (Bryn Mawr College) *Professor of Physics*
- Joshua C. Hubbard PHD (Harvard University) *Professor of Economics*
- Agi Jambor MA (Royal Academy of Budapest) *Professor of Music and Director of Ensemble Groups*
- Myra Richards Jessen PHD (Bryn Mawr College) *Professor Emeritus of German*
- M. Pauline Jones PHD (Bryn Mawr College) *Assistant Professor of French*¹
- Harry D. Karpeles DSW (Brandeis University) *Part-time Lecturer in Social Work and Social Research*
- Melville T. Kennedy, Jr. PHD (Harvard University) *Associate Professor of Political Science*
- Duncan Keppie PHD (University of Glasgow) *Assistant Professor-elect of Geology*
- Willard F. King PHD (Brown University) *Associate Professor of Spanish*
- Joan L. Klein PHD (Radcliffe College) *Part-time Lecturer in English*
- George L. Kline PHD (Columbia University) *Professor of Philosophy*²
- Alison Douglas Knox MA (Oxford University) *Lecturer in Philosophy*
- Arthur J. Komar M MUS MFA (Yale University) *Part-time Lecturer in Music*

¹ On leave, 1967-8.

² On leave, semester I, 1967-8.

- Jane Collier Kronick PHD (Yale University) *Assistant Professor and Associate Professor-elect of Social Work and Social Research*
- Catherine Lafarge PHD (Yale University) *Instructor and Assistant Professor-elect of French*
- Barbara Miller Lane PHD (Harvard University) *Assistant Professor of History*¹
- Mabel Louise Lang PHD (Bryn Mawr College) *Professor of Greek*
- Richmond Lattimore PHD (University of Illinois) LITT D *Paul Shorey Professor of Greek*
- Peter Leach MFA (Yale University) *Assistant Professor of English*
- Marguerite Lehr PHD (Bryn Mawr College) *Professor Emeritus of Mathematics*
- Gertrude C. K. Leighton AB (Bryn Mawr College) LLB (Yale University) *Professor of Political Science*¹
- Charles Douglas Lewis, Jr. MA (Cambridge University) *Lecturer in History of Art*
- Philip Lichtenberg PHD (Western Reserve University) *Associate Professor of Social Research*²
- Angeline Helen Lograsso PHD (Radcliffe College) *Professor Emeritus of Italian*
- Katherine D. K. Lower PHD (University of Wisconsin) *Professor of Social Work and Social Research*
- Robert F. Lyke MA (Yale University) *Assistant Professor-elect of Political Science*
- Isabel Gamble MacCaffrey PHD (Radcliffe College) *Professor of English*
- Frank Bryant Mallory PHD (California Institute of Technology) *Associate Professor of Chemistry*³
- Helen Taft Manning PHD (Yale University) *Professor Emeritus of History*
- Dorothy Nepper Marshall PHD (Bryn Mawr College) *Dean of the College*
- Antonio Mastrobuono MA (Catholic University of America) *Lecturer in Italian*
- Mario Maurin PHD (Yale University) *Professor of French*
- Ethel W. Maw PHD (University of Pennsylvania) *Assistant Professor of Education and Child Development*
- Susan E. Maxfield MS (Yale University) *Associate Professor of Education and Child Development and Director of the Phebe Anna Thorne School*

¹ On partial leave, semester I, 1967-8.

² On leave, 1967-8.

³ On leave, semester II, 1967-8.

BRYN MAWR COLLEGE

- Katharine Elizabeth McBride PHD LLD LHD SCD (Bryn Mawr College) *President of the College*
- Cornelia Lynde Meigs AB (Bryn Mawr College) *Professor Emeritus of English Composition*
- Machteld Mellink PHD (University of Utrecht) *Professor of Classical and Near Eastern Archaeology*
- Robert K. Meyer PHD (University of Pittsburgh) *Assistant Professor-elect of Political Science*
- Fritz Mezger PHD (University of Berlin) *Professor Emeritus of Germanic Philology*
- Agnes Kirsopp Lake Michels PHD (Bryn Mawr College) *Professor of Latin*
- Walter C. Michels PHD (California Institute of Technology) *Marion Reilly Professor of Physics*
- Charles Mitchell MA BLITT (Oxford University) *Professor of History of Art*
- K. Scott Morgan MA (Princeton University) *Lecturer in English*
- Catherine Rodgers Myers PHD (Brown University) *Assistant Professor of English*¹
- Irene Nagurski PHD (Columbia University) *Assistant Professor of Russian*
- Milton Charles Nahm BLITT PHD (University of Pennsylvania) *Professor of Philosophy*²
- Dolores Norton MSS (Bryn Mawr College) *Instructor-elect in Social Work and Social Research*
- John R. Olson PHD (Iowa State University) *Assistant Professor of Physics*
- Jane Marion Oppenheimer PHD (Yale University) *Class of 1897 Professor of Biology*
- John C. Oxtoby MA (University of California) *Professor of Mathematics*
- Robert L. Patten PHD (Princeton University) *Assistant Professor of English*
- Eleanor Krane Paucker PHD (University of Pennsylvania) *Lecturer in Spanish*
- Ruth C. Pearce PHD (University of Pennsylvania) *Assistant Professor of Russian*
- Emmy A. Pepitone PHD (University of Michigan) *Lecturer in Education and Child Development, semester I*
- Kyle M. Phillips, Jr. PHD (Princeton University) *Assistant Professor of Classical and Near Eastern Archaeology*

¹ On leave, 1967-8.

² On leave, semester II, 1967-8.

- Pearl S. Pitt MD (Columbia University, College of Physicians and Surgeons) *College Physician*
- Jeanne C. Pollock MSW (University of Pennsylvania School of Social Work) *Associate Professor of Social Work*
- Judith R. Porter PHD (Harvard University) *Lecturer and Assistant Professor-elect of Sociology*
- Jean A. Potter PHD (Yale University) *Associate Professor of Philosophy*
- John R. Pruett PHD (Indiana University) *Professor of Physics*
- William H. Reese PHD (University of Berlin) *Director of Orchestra*
- Martin Rein PHD (Brandeis University) *Associate Professor of Social Work and Social Research*
- Brunilde Sismondo Ridgway PHD (Bryn Mawr College) *Assistant Professor and Associate Professor-elect of Classical and Near Eastern Archaeology*¹
- William J. Roach PHD (University of Chicago) *Visiting Professor of Old French*
- Caroline Robbins PHD (University of London) *Marjorie Walter Goodhart Professor of History*
- Thomas P. Roche, Jr. PHD (Princeton University) *Visiting Lecturer in English*
- Bernard Ross PHD (University of Michigan) *Professor of Social Work and Social Research*
- Carmen Salvoni Lic (University of Madrid) *Part-time Instructor-elect in Italian and Spanish*
- Eugene V. Schneider PHD (Harvard University) *Professor of Sociology*
- Christoph E. Schweitzer PHD (Yale University) *Professor of German*
- Russell T. Scott PHD (Yale University) *Assistant Professor of Latin*
- Frank Seever MSW (Washington University) *Instructor-elect in Social Work and Social Research*
- Edmond Sherman, Jr. PHD (Bryn Mawr College) *Instructor and Assistant Professor-elect of Social Work and Social Research*
- Alain Silvera PHD (Harvard University) *Assistant Professor of History*
- James E. Snyder PHD (Princeton University) *Associate Professor of History of Art*
- Martin Avery Snyder PHD (New York University) *Assistant Professor-elect of Mathematics*
- Faye P. Soffen MSW (University of Michigan) *Lecturer in Education and Child Development*
- Arthur Colby Sprague PHD (Harvard University) *Professor Emeritus of English Literature*

¹ On leave, semester II, 1967-8.

BRYN MAWR COLLEGE

- Ruth O. Stallfort MS (Simmons College School of Social Work)
Part-time Lecturer in Social Work and Social Research
- K. Laurence Stapleton AB (Smith College) *Mary E. Garrett Alumnae Professor of English Literature*¹
- Isabel Scribner Stearns PHD (Bryn Mawr College) *Professor of Philosophy*
- Wolfgang Stechow DPHIL (University of Göttingen) *Mary Flexner Visiting Lecturer in History of Art*
- Lilo Stern PHD (Cambridge University) *Lecturer in Anthropology*
- Lily Ross Taylor PHD (Bryn Mawr College) *Professor Emeritus of Latin*
- Earl Thomas PHD (Yale University) *Assistant Professor of Psychology*
- Joyce Trebilcot PHD (University of California) *Teaching Resident in Philosophy*
- George Treyz AB (Princeton University) *Assistant Professor of Economics on joint appointment with Haverford College*
- Phyllis Turnbull D en FL (University of Madrid) *Assistant Professor of Spanish and Advisor to Foreign Students*
- Myra L. Uhlfelder PHD (Bryn Mawr College) *Associate Professor of Latin*
- John R. Vanderzell PHD (Syracuse University) *Visiting Lecturer in Social Work and Social Research*
- Joseph Varimbi PHD (University of Pennsylvania) *Associate Professor of Chemistry*
- William Vosburgh PHD (Yale University) *Assistant Professor of Social Work and Social Research*
- Edward H. Watson PHD (Johns Hopkins University) *Professor of Geology*
- Roger Hewes Wells PHD (Harvard University) *Professor Emeritus of Political Science*
- Mary Katharine Woodworth PHD (Bryn Mawr College) *Professor of English*
- Dorothy Wyckoff PHD (Bryn Mawr College) *Professor Emeritus of Geology*
- George L. Zimmerman PHD (University of Chicago) *Professor of Chemistry*
- Greta Zybon DSW (Western Reserve University) *Assistant Professor of Social Work and Social Research*

Graduate Residence Center

Sylvia Kartsonis MA (Bryn Mawr College) *Senior Resident*

¹ On leave, semester II, 1967-8.

Officers of Administration

- Carol Biba AB (University of Wisconsin) *Director of Public Information*
- Louise Hodges Crenshaw AB (Bryn Mawr College) *Director of the Bureau of Recommendations*
- Paul W. Klug CPA BS (Temple University) *Comptroller and Business Manager of the College*
- Samuel J. McNamee BS (Temple University) *Assistant Comptroller*
- Mary Patterson McPherson MA (University of Delaware) *Assistant Dean of the College*
- Julie E. Painter AB (Bryn Mawr College) *Scholarship Officer*
- Clarissa Wardwell Pell, *Director of the Resources Committee*
- Cynthia Sorrick Platt AB (Bryn Mawr College) *Recorder*
- Patricia Onderdonk Pruett PHD (Bryn Mawr College) *Assistant Dean of the College*
- Thomas N. Trucks BS (Villanova University) *Superintendent of Buildings and Grounds*
- Phyllis Turnbull D en FL (University of Madrid) *Adviser to Foreign Students and Assistant Professor of Spanish*
- Elizabeth G. Vermey MA (Wesleyan University) *Director of Admissions*
- Katharine Budd Whelihan AB (Mount Holyoke College) *Assistant to the President*
- Sarah E. Wright, *Director of Halls*

Library

- Janet Margaret Agnew BLS (McGill University) MA (University of Manitoba) *Head Librarian*
- Dorothy V. McGeorge BSLS (Drexel Institute) *Order Librarian*
- Elizabeth T. Pope MSLS (Drexel Institute) MA (University of Wisconsin) *Assistant in Cataloguing Department*
- Gertrude Reed MA (Rutgers University) *Assistant in the Circulation Department*
- Pamela G. Reilly MSLS (Drexel Institute) *Head of Circulation and Reference Department*
- Pauline Anne Taffe MSLS (Villanova University) *Assistant in Cataloguing Department*
- Cornelia A. Tucker MSLS (Louisiana State University) *Assistant in the Circulation Department*
- Yildiz van Hulsteyn MSLS (Drexel Institute) MA (Bryn Mawr College) *Librarian West Wing*

BRYN MAWR COLLEGE

Jane Walker BS (Simmons College) *Head of Cataloguing Department*

Ethel W. Whetstone ABLs (University of North Carolina) *Librarian, Departmental Libraries*

Health

Pearl S. Pitt MD (Columbia University, College of Physicians and Surgeons) *College Physician*

Irene A. Clayton MS (University of Wisconsin) *Director of Physical Education*

John F. Howkins, MD (Columbia University, College of Physicians and Surgeons) *Consulting Psychiatrist*

Howard B. Smith MD (Jefferson Medical College) *Consulting Psychiatrist*

Frieda W. Woodruff MD (University of Pennsylvania) *Assistant College Physician*

Child Study Institute

Rachel Dunaway Cox PHD (University of Pennsylvania) *Director*

Eleanor Beatty, MA (George Washington University) *Psychologist*

Lelia Broderson MA (Temple University) *Chief Psychologist*

Louise Brunk MSS (Bryn Mawr College) *Social Caseworker*

Anna D. Emmons, MS (University of Pennsylvania) *Remedial Reading Teacher*

Joel Goldstein, MD (Jefferson Medical School) *Consulting Psychologist*

Constance Grant BS (University of Pennsylvania) *Remedial Reading Teacher*

Anita Grinnell MS (University of Pennsylvania) *Part-time Psychologist*

Virginia G. Keen, MSW (University of Pennsylvania School of Social Work) *Social Caseworker*

Frederic J. Kwapien, MD (Tufts University School of Medicine) *Consulting Psychiatrist*

Hope D. Mitchell MA (Bryn Mawr College) *Psychologist*

Jeanne Murray MSW (University of Washington) *Social Caseworker*

Christine Patzau MSW (University of Pennsylvania School of Social Work) *Part-time Social Caseworker*

GRADUATE COMMITTEES

Myra E. Pottash BS (Pennsylvania State University) *Psychological Assistant*

Elizabeth Preston MSS (Bryn Mawr College) *Chief Social Worker*

Beth Riser AB (Northwestern University) *Remedial Reading Teacher*

Beatrice Schneider MSS (Bryn Mawr College) *Part-time Social Caseworker*

Herman Staples MD (Hahnemann Medical College) *Consulting Psychiatrist*

Elsie Waelder, MSW (Western Reserve University) *Part-time Social Caseworker*

Isabel Westfried MA (Bryn Mawr College) *Psychologist*

Phebe Anna Thorne School

Susan E. Maxfield MS (Yale University) *Director*

Barbara L. Jensh, MED (Harvard University) *Head Teacher*

Tsu-Shan Chung BS (Tsinghua University) *Assistant Teacher*

Mary Gibbs Smith AB (Bryn Mawr College) *Assistant Teacher*

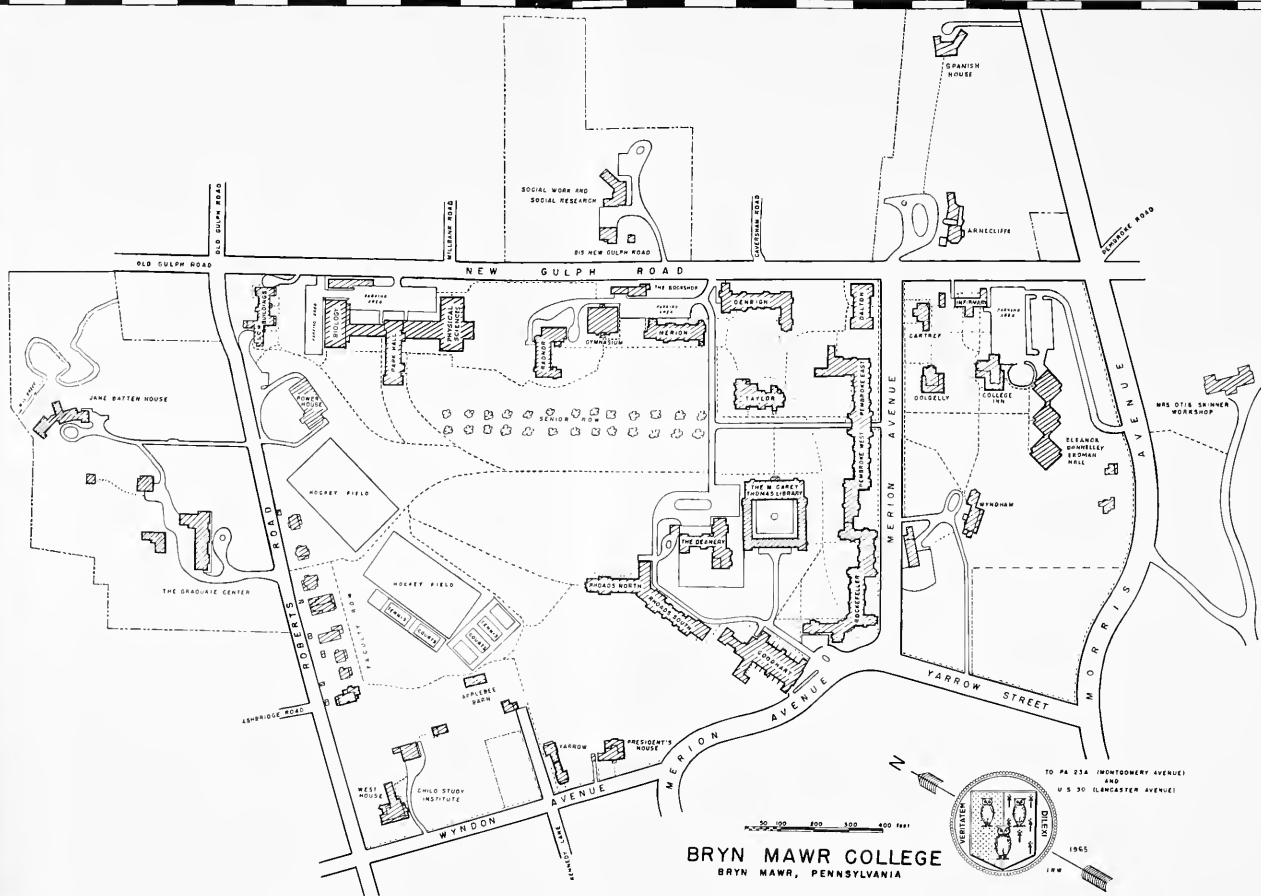
Committees

The Graduate Committee

President McBride, <i>Chairman</i>	Mr Ross
Dean Foster, <i>Vice-chairman</i>	Mr Zimmerman
Mr Bachrach	Mr Kline
Mr González Muela	(Mr Ferrater Mora, semester I)
Mr Maurin	Miss Oppenheimer
Miss Mellink	Miss Woodworth

The Graduate Scholarships Committee

Dean Foster, <i>Chairman</i>	Mr Mitchell
President McBride, <i>ex-officio</i>	(for Mrs Hanson)
Mr Anderson	Mrs Pollock



Directions to Bryn Mawr

Bryn Mawr College is located approximately eleven miles west of Philadelphia and nine miles east of Paoli.

By air: From the Philadelphia International Airport take the airport limousine to 30th Street Station in Philadelphia and from there the Paoli Local to Bryn Mawr, or take a taxi directly to Bryn Mawr from the airport, a distance of 14 miles.

By automobile: From the east or west take U.S. 30 or the Pennsylvania Turnpike. From the Valley Forge Exit of the Turnpike, take the Schuylkill Expressway (Pa. #43—Interstate #76), turning right at the exit marked "Ardmore-Chester" to Pa. #23, which is 3.5 miles east of the toll gate; continue into Alternate #23 (Montgomery Avenue) which leads directly into the town of Bryn Mawr, a distance of 4 miles from the Expressway. Turn left at the traffic light at the intersection of Morris and Montgomery Avenues, continue for one block, then turn left again to Yarrow Street which leads directly to the campus.

By bus: All Greyhound buses arrive at the Philadelphia terminal at 17th and Market Streets, adjoining Suburban Station. Trailways buses arrive at 13th and Arch Streets, three blocks from Suburban Station. Take the Paoli Local from Suburban Station to Bryn Mawr.

By railroad: Connections from the east, north and south are best made from 30th Street Station, Philadelphia, on the Paoli Local of the Pennsylvania Railroad, which leaves the station every thirty minutes. Those coming by rail from the west are advised to leave the train at Paoli (rather than North Philadelphia) and take the Local from Paoli to Bryn Mawr.

To walk to the College from the Bryn Mawr Station, go one block to the traffic light at the intersection of Morris and Montgomery Avenues, cross Montgomery on to Morris and take the next left on to Yarrow Street, which leads directly to the campus.

Bryn Mawr College Calendar

BRYN MAWR

Undergraduate Courses

1967-68

Bryn Mawr College Calendar

UNDERGRADUATE COURSES

ISSUE FOR THE SESSION OF 1967/1968

Volume LX

AUGUST 1967

Number 3

Bryn Mawr College

VISITORS to the College are welcome, and when the College is in session student guides are available to show visitors the campus. Appointments for interviews and for campus tours should be made in advance by letter or by telephone. The College offices are open Monday through Friday from nine until five and on Saturdays from nine until one. From mid-June until after mid-September the offices are closed on Saturdays.

CORRESPONDENCE

The Post Office address is Bryn Mawr College, Bryn Mawr, Pennsylvania 19010.

Correspondence regarding the following subjects should be addressed to:

The President

General interests of the College

The Dean

Academic work, personal welfare and health of the students

The Director of Admissions

Admission to the Undergraduate School and entrance scholarships

The Dean of the Graduate School

Admission to the Graduate School and graduate scholarships

The Director of Halls

Rooms in the halls of residence

The Comptroller

Payment of bills

The Director of the Bureau of Recommendations

Recommendations for positions and inquiries regarding students' self-help

The Alumnae Secretary

Regional scholarships and loan fund

BRYN MAWR COLLEGE CALENDAR. Published December, July, August and September by Bryn Mawr College, Bryn Mawr, Pa. 19010.

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Academic Schedule

1967/1968

1967

First Semester

- September* 14. Halls of residence open to entering class at 8 A.M.
Registration of entering undergraduate students.
- September* 16. Halls of residence open to returning undergraduates at 8 P.M.
- September* 17. Enrollment of returning undergraduate students.
- September* 18. Work of the 83rd academic year begins at 9 A.M.
- September* 20. Registration period for graduate students ends.
- October* 7. French examinations for undergraduates.
- October* 21. German examinations for undergraduates.
Italian, Spanish, Russian, and Statistics examinations for graduate students.
- October* 28. Italian and Spanish examinations for undergraduates.
French examinations for graduate students.
- November* 4. Greek, Latin, and Russian examinations for undergraduates.
German examinations for graduate students.
- November* 8. Hygiene examination at 7:30 P.M.
- November* 11. Mathematics examinations for undergraduates.
- November* 22. Thanksgiving Holiday begins after last class.
- November* 27. Thanksgiving Holiday ends at 9 A.M.
- December* 15. Christmas vacation begins at 12:45 P.M.

1968

- January* 3. Christmas vacation ends at 9 A.M.
- January* 6. French, Italian, and Spanish examinations for Seniors conditioned.
- January* 9. Last day of lectures.
- January* 10-12. Review Period.

Academic Schedule

- January* 13-22. College examinations.
January 13. Greek, Latin, and Russian examinations for Seniors conditioned.
January 20. German examinations for Seniors conditioned.
January 23-28. Intersession.
January 24. Registration period for graduate students begins.

Second Semester

- January* 29. Work of the Second Semester begins at 9 A.M.
January 31. Registration period for graduate students ends.
March 2. Italian, Spanish, Russian, and Statistics examinations for graduate students.
March 9. French examinations for graduate students.
March 16. Mathematics examinations for undergraduates. German examinations for graduate students.
March 21. Spring vacation begins after last class.
April 1. Spring vacation ends at 9 A.M.
April 1-6. Deferred examinations.
April 6. German examinations for undergraduates.
April 13. Greek, Latin, and Russian examinations for undergraduates.
April 20. French examinations for undergraduates.
April 26-28. Geology Field Trip.
May 4. Italian and Spanish examinations for undergraduates.
May 10. Last day of lectures.
May 11-13. Review Period.
May 14-23. College examinations.
May 27. Conferring of degrees and close of 83rd academic year.
June 1. Alumnae Day.

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1. On sabbatical leave, semester I, 1967-8.

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1. On sabbatical leave, semester I, 1967-8.

2. On leave of absence, part-time, semester I, 1967-8.

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1. On sabbatical leave, semester II, 1967-8.

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1. On sabbatical leave, 1967-8.

2. On leave of absence, semester II, 1967-8.

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JANE C. GOODALE, PH.D. (University of Pennsylvania), *Assistant Professor of Anthropology*³

1. On sabbatical leave, semester II, 1967-8.

2. On Junior Faculty Research leave, 1967-8.

3. On leave of absence, 1967-8.

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1. On Junior Faculty Research leave, 1967-8.

2. On leave, Eugenia Chase Guild Fellow, 1967-8.

3. On leave of absence, 1967-8.

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PATRICIA A. KENDALL, M.A. (Middlebury College), *Part-time Instructor-elect in French*

MARGARET S. MAURIN, A.B. (Bryn Mawr College), *Part-time Instructor-elect in French*

ROBERT J. MOON, B.A. (Eastern Baptist College), *Part-time Instructor-elect in Biology, semester I*

DOLORES NORTON, M.S.S. (Bryn Mawr College), *Instructor-elect in Social Work and Social Research*

CARMEN SALVONI, Lic. F.L. (University of Madrid), *Part-time Instructor-elect in Italian and Spanish*

FRANK SEEVER, M.S.W. (Washington University), *Instructor-elect in Social Work and Social Research*

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SAMUEL J. MCNAMEE, B.S. (Temple University), *Assistant Comptroller*

MARY PATTERSON MCPHERSON, M.A. (University of Delaware), *Assistant Dean of the College*

JULIE E. PAINTER, A.B. (Bryn Mawr College), *Scholarship Officer*

CLARISSA WARDWELL PELL, *Director of the Resources Committee*

CYNTHIA SORRICK PLATT, A.B. (Bryn Mawr College), *Recorder*

PATRICIA ONDERDONK PRUETT, PH.D. (Bryn Mawr College), *Assistant Dean of the College*

ELLEN T. SILBERBLATT, M.A. (Harvard University), *Assistant to the Director of Admissions*

THOMAS N. TRUCKS, B.S. (Villanova University), *Superintendent of Buildings and Grounds*

ELIZABETH G. VERMEY, M.A. (Wesleyan University), *Director of Admissions*

KATHARINE BUDD WHELIHAN, A.B. (Mount Holyoke College), *Assistant to the President*

SARAH E. WRIGHT, *Director of Halls*

Library

JANET MARGARET AGNEW, B.L.S. (McGill University), M.A. (University of Manitoba), *Head Librarian*

DOROTHY V. McGEORGE, B.S.L.S. (Drexel Institute), *Order Librarian*

ELIZABETH T. POPE, M.S.L.S. (Drexel Institute), M.A. (University of Wisconsin), *Assistant in Cataloguing Department*

GERTRUDE REED, M.A. (Rutgers University), *Assistant in the Circulation Department*

PAMELA G. REILLY, M.S.L.S. (Drexel Institute), *Head of Circulation and Reference Department*

PAULINE ANNE TAFFE, M.S.L.S. (Villanova University), *Assistant in Cataloguing Department*

CORNELIA A. TUCKER, M.S.L.S. (Louisiana State University), *Assistant in the Circulation Department*

YILDIZ VAN HULSTEYN, M.S.L.S. (Drexel Institute), M.A. (Bryn Mawr College), *Librarian West Wing*

JANE WALKER, B.S. (Simmons College), *Head of Cataloguing Department*

ETHEL W. WHETSTONE, A.B.L.S. (University of North Carolina), *Librarian, Departmental Libraries*

Foreign Students

PHYLLIS TURNBULL, D. en F.L. (University of Madrid), *Assistant Professor of Spanish and Adviser to Foreign Students*

Halls of Residence

MARGARETE BACHNER, Staatsexamen (University of Vienna), *Head of the German House*

SYLVIA KARTSONIS, M.A. (Bryn Mawr College), *Senior Resident of the Graduate Residence Center*

EUGENIA MARIA KOBRAK, A.B. (Bryn Mawr College), *Warden-elect*

EMMANUELE LAARMAN, Lic. (University of Paris), *Head of the French House*

Faculty and Staff

- WENDY MOLDOVAN, A.B. (Hunter College), *Warden-elect*
BARBARA PARSONS, M.A. (St. Louis University), *Warden-elect*
CARMEN SALVONI, *Lic. F.L.* (University of Madrid), *Head of the Spanish House*
MARY STURGEON, B.A. (University of Minnesota), *Warden*
ANNE TURLEY, A.B. (San Francisco State College), *Warden*
JEANNE YOUNG, A.B. (Willamette University), *Warden*

Health

- PEARL S. PITT, M.D. (Columbia University, College of Physicians and Surgeons), *College Physician*
IRENE A. CLAYTON, M.S. (University of Wisconsin), *Director of Physical Education*
FRIEDA W. WOODRUFF, M.D. (University of Pennsylvania), *Assistant College Physician*
JOHN F. HOWKINS, M.D. (Columbia University, College of Physicians and Surgeons), *Consulting Psychiatrist*
HOWARD B. SMITH, M.D. (Jefferson Medical College), *Consulting Psychiatrist*

Physical Education

- IRENE A. CLAYTON, M.S. (University of Wisconsin), *Director of Physical Education*
JAN EKLUND FISHER, M.ED. (University of Minnesota), *Instructor in Physical Education*
SHARON ANN PLOWMAN, M.S. (University of Illinois), *Instructor in Physical Education*
GLORIA SCHMIDT, M.A. (New York University), *Instructor in Physical Education*
JANET A. YEAGER, *Instructor in Physical Education*

Child Study Institute

- RACHEL DUNAWAY COX, PH.D. (University of Pennsylvania), *Director*
ELIZABETH PRESTON, M.S.S. (Bryn Mawr College), *Social Case-worker*

Bryn Mawr College

- LOUISE BRUNK, M.S.S. (Bryn Mawr College), *Social Caseworker*
VIRGINIA G. KEEN, M.S.W. (University of Pennsylvania School of Social Work), *Part-time Social Caseworker*
JEANNE MURRAY, M.S.W. (University of Washington), *Social Caseworker*
CHRISTINE PATZAU, M.S.W. (University of Pennsylvania School of Social Work), *Social Caseworker*
BEATRICE SCHNEIDER, M.S.S. (Bryn Mawr College), *Part-time Social Caseworker*
ELSIE WAELDER, M.S.W. (Western Reserve University), *Part-time Social Caseworker*
LELIA BRODERSEN, M.A. (Temple University), *Chief Psychologist*
ELEANOR BEATTY, M.A. (George Washington University), *Psychologist*
HOPE D. MITCHELL, M.A. (Bryn Mawr College), *Psychologist*
ISABEL WESTFRIED, M.A. (Bryn Mawr College), *Psychologist*
ANITA GRINNELL, M.S. (University of Pennsylvania), *Part-time Psychologist*
JOEL GOLDSTEIN, M.D. (Jefferson Medical School), *Consulting Psychologist*
FREDERIC J. KWAPIEN, M.D. (Tufts University School of Medicine), *Consulting Psychiatrist*
HERMAN STAPLES, M.D. (Hahnemann Medical College), *Consulting Psychiatrist*
ANNE D. EMMONS, M.S. (University of Pennsylvania), *Remedial Reading Teacher*
CONSTANCE GRANT, B.S. (University of Pennsylvania), *Remedial Reading Teacher*
BETH RISER, A.B. (Northwestern University), *Remedial Reading Teacher*
MYRA POTTASH, B.S. (Pennsylvania State University), *Psychological Assistant*

Phebe Anna Thorne School

- SUSAN E. MAXFIELD, M.S. (Yale University), *Director*
BARBARA L. JENSH, M.ED. (Harvard University), *Head Teacher*
TSU-CHAN CHUNG, B.S. (Tsinghua University), *Assistant Teacher*
MARY GIBBS SMITH, A.B. (Bryn Mawr College), *Assistant Teacher*

Introduction

BRYN MAWR COLLEGE was founded by a group of men and women belonging to the Society of Friends who were convinced that intelligent women deserve an education as rigorous and stimulating as that offered to men.

This concern about opportunity for women to study at the university level was first felt by Dr. Joseph Taylor, a New Jersey physician, who decided to give his estate to provide the land, the first buildings and the endowment for the new college. With much care Dr. Taylor chose the site, thirty-nine acres of land on a hill in Bryn Mawr, eleven miles west of Philadelphia. He supervised the erection of the first building and took part in formulating the plans that led to a new educational venture. This was the opening in 1885 of the first college for women with undergraduate instruction for the A.B. and graduate instruction for the M.A. and Ph.D. degrees in all departments.

Dr. Taylor as he planned the College thought first of the education of young Friends. He expressed the "desire that all having any connexion with this Institution shall endeavor to instil into the minds and hearts of the students, the Doctrines of the New Testament as accepted by Friends." As Dr. Taylor's trustees in the early years considered the policies of the College they found themselves bound to allow freedom of conscience to all students. By 1893 it is clear from their studies and reports that they were determined to maintain a non-denominational college while strongly supporting the Friends' position of freedom of conscience and providing for continued opportunity within the College and through the College to encourage the student to develop and strengthen her own religious faith.

The first president of Bryn Mawr College was James E. Rhoads, a retired physician and one of the Trustees responsible for the initial plans. The first dean was M. Carey Thomas, who devoted her life to securing for women the opportunity for higher education and the right to share in all the privileges and responsibilities of American citizenship. Miss Thomas succeeded to the presidency in 1893, after the resignation of Dr. Rhoads. In 1922, she was followed by Marion Edwards Park, already dis-

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tinguished in the academic world for her scholarship in the classics and her ability as a teacher and administrator. The fourth president is Katharine Elizabeth McBride, who was elected to the presidency in 1942.

Bryn Mawr has preserved the purpose and much of the tradition of its founders. It believes that intellectual enrichment and discipline provide a sound foundation for living. It believes in the rights of the individual and in freedom to think and act as intelligent and responsible members of a democratic society.

By the terms of its charter Bryn Mawr College offers instruction in the liberal arts and sciences on both the undergraduate and graduate level. Members of the faculty usually combine graduate and undergraduate teaching. Teaching and research are found to complement each other, and the stimulation of investigation in the various fields of graduate study is reflected in all departments of undergraduate work. The undergraduate program emphasizes both depth and breadth of knowledge and understanding. No field is so broad that it cannot take advantage of the specialist's deep understanding; no specialty is so obscure that it may not profit from a breadth of perception.

Believing that a small college provides the most favorable opportunity for the students to participate actively in their own education, Bryn Mawr College limits the number of undergraduates to approximately seven hundred students. And since diversity in background and training serves not only to stimulate discussion but also to develop an intelligent understanding of such diversity, the undergraduate enrolment includes students from various types of schools, private and public, foreign as well as American. The whole group, both graduate and undergraduate, is composed of students from all parts of the United States as well as students from many foreign countries.

Since the early years of Bryn Mawr, the campus has grown from 39 to about 96 acres, new buildings have been added as required by additional students and by more complex undertakings in teaching and research, yet the College remains a compact unit for living and working.

The resources of Bryn Mawr as a small residential college are augmented by its participation with Haverford College and Swarthmore College in a plan which coordinates the facilities of

the three institutions while preserving the individual qualities and autonomy of each.

Bryn Mawr College sponsors a broad cultural program which supplements the curriculum and enriches its community life. Various lectureships bring scholars and other leaders in world affairs to the campus for series of public lectures and for classes and conferences with the students. Such opportunities are provided by the six-week residence of the Mary Flexner Lecturer in the humanities and of the Anna Howard Shaw Lecturer in the social sciences, and by various individual lecturers in many of the departments of the College. Several of the student organizations also arrange conferences and lectures both on current national and international problems and within particular fields of interest. The musical, dramatic and dance productions of the College are directed and arranged by the appropriate student organizations, often in cooperation with Haverford College students, and with professional assistance from members of the faculty and staff. The Mrs. Otis Skinner Theater Workshop has facilities for experimental theater work; the Arnecliffe Studio is for painting and sculpture, where guidance and criticism are provided by the artist-in-residence.

Student organizations have complete responsibility for the many aspects of student activity. Two large associations, to which every student belongs, provide a framework in which individuals and smaller groups function. The Self-Government Association legislates in matters of social and personal conduct, and its elected Executive Board has full responsibility for the executive and judicial functions of the organization. Through their Self-Government Association, the students share with the faculty the responsibility for the administration of the Academic Honor System. The Undergraduate Association coordinates the activities of the many specialized clubs and societies which are open to all students.

The Interfaith Association invites students of all faiths to take part in its work. The Association is aided by the Committee on Religious Life of the Board of Directors and by the staff of the College. Its objectives are to bring students in touch with their churches, to sponsor lectures or discussion on religious subjects, to plan services for worship and to take the responsibility for giving students an opportunity to pursue and extend their religious interests.

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Other major student associations are concerned with political affairs, community service, the arts and athletics. The Alliance for Political Affairs sponsors lectures and a series of groups organized for discussion or action. The Bryn Mawr League concerns itself with problems of social welfare and various branches of social service to the community at large. The Arts Council, independently or with other associations, sponsors work and performances or exhibitions in the arts. *The College News* published weekly and *The Review* published twice yearly welcome the participation of students interested in reporting, editing, and critical or creative writing. The Athletic Association plans the extra-curricular athletic program.

Opportunities for the cultivation of clear thinking and informed reasoning, for exercise in the privileges and responsibilities of community life, and for practice in the critical and creative arts are present for each undergraduate student at Bryn Mawr. As she continues through the undergraduate years, she should begin to know too the personal satisfactions and rewards that are the common heritage of scholars.

Admission

BRYN MAWR COLLEGE is interested in candidates of character and ability, who wish a liberal college education and are prepared for college work by a sound education in school. The College has found highly successful candidates among students of varied interests and talents from a wide range of schools and regions in the United States and abroad.

In its consideration of candidates the College looks for evidence of ability in the student's high school record, her rank in class and her College Board tests, and asks her high school principal and some of her teachers for an estimate of her character, maturity and readiness for college.

The Director of Admissions welcomes correspondence and interviews with candidates, their parents and school advisers. The Office of Admissions is open from nine to five on weekdays and, except during July and August, on Saturdays from nine to one. Appointments for interviews and for campus tours should be made in advance by letter or by telephone. The interview is strongly recommended for all candidates, and is *required* of all candidates under the Early Decision Plan and all scholarship applicants. Representatives of the Alumnae Association and Information Chairmen in various sections of the country are glad to interview candidates who cannot come to the College. Names and addresses should be secured from the Director.

The College admits only candidates for a degree.

PROGRAM OF SECONDARY SCHOOL STUDIES

Candidates are expected to complete a four-year secondary school course. The program of studies providing the best background for college work includes English, languages and mathematics carried through most of the school years and, in addition, history and a laboratory science. A school program giving good preparation for study at Bryn Mawr College would be as follows: English grammar, composition and literature throughout four years; at least three years of Mathematics, with emphasis on basic algebraic, geometric and trigonometric concepts and deductive reasoning; a good foundation in one modern language and in Latin or Greek; some work in History and at least one course in laboratory science, preferably Biology, Chemistry or Physics. Elective subjects might be offered in, for example, History of Art, History of Music or Biblical studies to make up

the total of 16 or more credits recommended for admission to the College.

Since school curricula vary widely, the College is fully aware that many applicants for admission will offer programs that differ from the one described above. The College is glad to consider such applications provided students have maintained good records and continuity in the study of basic subjects.

APPLICATION FOR ADMISSION

Students are advised to apply for admission to Bryn Mawr between the end of the junior year and January 1 of the senior year of high school. The College welcomes earlier consultation about school programs.

Only in exceptional circumstances will applications to the freshman class be accepted after January 1 of the student's senior year.

Application forms may be obtained from the Director of Admissions, Bryn Mawr College, Bryn Mawr, Pennsylvania. A fee of \$15 must accompany each application and is not refundable.

ENTRANCE TESTS

The Scholastic Aptitude Test and three Achievement Tests of the College Entrance Examination Board are required of all candidates with the exception of students who have been admitted to the universities of other countries. The Aptitude and Achievement Tests should be taken in *December or January of the senior year* in secondary school. If possible, Achievement Tests should be taken in current subjects. Students should offer three of the one-hour tests: one in English, one in a foreign language (if studied for two full years or more) and one in Social Studies, Science or Mathematics. A student may, if not carrying three subjects suitable for testing, submit *one* test taken in the junior year. No special preparation, other than work well done in a good school, is required for successful performance on these tests. A trial run of the Scholastic Aptitude Test in March or May of a student's junior year is advised.

Candidates are responsible for registering with the College Entrance Examination Board for the tests. Information about the tests, test centers, fees and dates may be obtained by writing to College Entrance Examination Board, P.O. Box 592, Princeton, New Jersey, or P.O. Box 1025, Berkeley 1, California.

Candidates will be notified late in April of the senior year as to whether or not they will be admitted to the College.

EARLY DECISION PLAN

A student who is applying for admission to Bryn Mawr College only, and to no other college, will be sent an earlier notice (by the middle of November) as to the action taken on her application, provided she follows the plan outlined below:

1. She must be recommended by her school as a strong candidate and must take her *final* Scholastic Aptitude Test in March or May of the junior year and three Achievement Tests (English and any two others) in March, May or July of the junior year.
2. After her school has reviewed the results of these tests together with her three-year high school record, she must file by *October 1*, a preliminary application, a statement obtained from the College that she is a candidate under the Early Decision Plan, and all other application forms.
3. She should arrange for an interview at the College or with an alumna area representative. Names and addresses of the area representatives may be obtained from the Director of Admissions.
4. She will be notified by the College in the middle of November (1) that she will be admitted to Bryn Mawr the following autumn, provided her record continues to be good, or (2) that she is advised to transfer to the regular plan for admission, repeating the Scholastic Aptitude Test and two Achievement Tests in the winter of her senior year, and filing an application with at least one other college, or (3) that she will not be admitted to Bryn Mawr.
5. A student who has been assured of admission will be asked to make a deposit of \$50 by February 1, if she wishes to reserve a place in residence at Bryn Mawr College. This deposit will be deducted from her first semester bill and is not refundable.

ADVANCED PLACEMENT

Students who have carried advanced work in school and who have honor grades (4 and 5) on the Advanced Placement Tests of the College Entrance Examination Board may, after consultation with the Dean and the departments concerned, be admitted to one or more advanced courses in the freshman year. Bryn Mawr accepts Advanced Placement Tests with honor grades in the relevant subjects as exempting the student from college requirements

for the A.B. degree.¹ With the approval of the Dean and the departments concerned, one or more Advanced Placement Tests with honor grades may be presented for credit. Students who enter with three or more Advanced Placement Tests passed with honor grades may apply for sophomore standing.

The Advanced Placement Tests are given at College Board centers in May. Students should also see the Dean about the advisability of taking placement tests given by the College during Freshman Week.

TRANSFER AND FOREIGN STUDENTS

Students are admitted on transfer from American and foreign colleges and universities approved by the College. To be admitted on transfer, a student must have an excellent school record and, in college work, at least a high "B" average. A transfer applicant should submit to the College:

1. A letter explaining why she wishes to transfer and her plans for the major subject.
2. A current catalogue of her own college, in which she has marked the courses taken.
3. Transcripts of her high school and college courses.
4. Official test reports from the College Entrance Examination Board on the Scholastic Aptitude Test and three Achievement Tests if the candidate has taken them previously.

Transfer candidates who have not taken these tests will be required to take only the Scholastic Aptitude Test. Information concerning this test and applications to take it may be obtained from the College Entrance Examination Board. (For address see page 28.)

Foreign students may substitute for the College Board tests evidence that they have been admitted to universities in their own countries. Those whose native language is not English must also present credentials attesting to proficiency in English.

No credit will be given for work done elsewhere until the student has successfully completed a year's work at Bryn Mawr. To qualify for the A.B. degree, transfer students must complete two years of study here. Students of other colleges or universities who have failed to meet the prescribed standards of academic

1. The grade of 5 is required in English and in History.
See also pages 43-45, sections 11. and 111.

work, or who have been put on probation or suspended or excluded, will under no circumstances be admitted.

WITHDRAWAL AND READMISSION

A student who has withdrawn from College is not automatically readmitted. After a year's absence, she may request readmission and should consult her Dean and the Director of Admissions concerning the procedure to be followed. Evidence of the student's ability to resume work at Bryn Mawr may be requested in the form of records from another university or medical approval. Applications for readmission will be reviewed twice during the year, in late February and in June. Students who file an application by February 15 will be notified of the Committee's decision in early March. Those who file by June 10 will be notified late in June.

LEAVES OF ABSENCE

A student whose status at the College is not in question may apply to her Dean for a leave of absence from the College. A leave may be requested for one semester or two consecutive semesters, and once approved, readmission will be granted. The estimated residential space available at the time a student wishes to return to the College will be a factor in the consideration of requests for leaves. Application should be made by April 1 of the academic year preceding the requested leave. Applications made after this date will be considered only in exceptional circumstances. The Deans and members of the student's major department will review any questions raised by the student or her Dean regarding the approval of the leave. In case of study at another institution, either foreign or domestic, the transfer of credits will be treated in the usual manner by the Committee on Transfer. A student should confirm her date of return, by letter to her Dean, by March 1 preceding return for the fall semester and by December 1 for return in the spring semester.

A student extending her leave beyond the approved period will have to apply for readmission.

MEDICAL LEAVE OF ABSENCE

A student may, on the recommendation of the College Physician or her own doctor, at any time request a medical leave of absence for reasons of health. Re-entrance will be granted upon evidence of recovery.

Academic Facilities and Residence

THE LIBRARY

THE M. CAREY THOMAS LIBRARY, containing over 330,000 volumes, is equipped to serve advanced graduate students and faculty as well as undergraduates. It is both a research and a study library. Periodicals in all subjects, of which over one thousand are currently received, contribute materially to the value of the collection.

The open-shelf system provides free access to the stacks. The Reference Room and Periodical Room make readily available standard works of reference and current periodicals.

The Quita Woodward Memorial Room has been planned for recreational reading. The collection provided for this purpose, now numbering about two thousand volumes, includes recent books in literature, art, religion and current affairs as well as many classics.

In the Rare Book Rooms, there are early printed books, manuscripts, first editions, fine press books, fine illustrated editions and association copies. Exhibitions of items selected from the library's own resources and of material lent by friends of the Library are held at intervals during the academic year. Here also is the Marjorie Walter Goodhart Medieval Library, a collection of incunabula given by Howard L. Goodhart which numbers over nine hundred volumes. Consisting mainly of philosophical and theological works of the fifteenth century, it occupies a significant place among college library collections.

A large Reading Room modeled after the Great Hall in Wadham College, Oxford University, has individual desks for undergraduate students. Additional work space is available in the Reserve Book Room, the Reference Room, the Art Study and the carrels in the West Wing. Twelve seminar rooms are reserved for graduate students. So crowded, however, has the Library become, not only in terms of its collections but also for faculty and students depending upon it, that an addition is urgently needed. Studies for this addition are nearing completion.

Haverford and Swarthmore Colleges and the libraries in Philadelphia are generous in making their resources available to students. The Union Library Catalogue of Philadelphia, situated at the University of Pennsylvania, enables students to locate

easily the material in approximately one hundred and seventy-five libraries in the Philadelphia metropolitan area.

Students wishing to use another library for material not available at Bryn Mawr must secure from the Bryn Mawr head librarian a letter of introduction stating the subject to be consulted. Cards of identification for the use of the Haverford College Library are obtainable at the Circulation Desk.

Each of the science departments at Bryn Mawr has its own library, with adequate reading space providing ready accessibility to bound and current numbers of scientific journals, standard reference books and modern texts.

ARCHAEOLOGY COLLECTIONS

The Ella Riegel Museum of Classical Archaeology, housed on the third floor of the Library, West Wing, contains a small study collection of Greek and Roman minor arts, especially vases, and a selection of pre-classical antiquities. The Museum was formed from private donations such as the Densmore Curtis collection presented by Clarissa Dryden, the Elisabeth Washburn King collection of classical Greek coins, and the Aline Abacherli Boyce collection of Roman Republican silver coins. Professor Hetty Goldman has given the Ella Riegel Museum an extensive study collection of pottery samples from the excavations at Tarsus in Cilicia. The collections are used for small research projects by undergraduate and graduate students.

ANTHROPOLOGY MUSEUM AND LABORATORY

The Anthropology Laboratory in Dalton Hall houses several large collections of New World artifacts, including the W.S. Vaux Collection of archaeological and ethnological materials. This important collection, made during the last half of the nineteenth century, has as its main emphasis the artistic works of New World Indians. The Anne and George Vaux Collection represents a wide selection of American Indian basketry from the Southwest, California and the Pacific Northwest. The extensive Ward Canaday Collection contains outstanding examples of most of the ceramic and textile traditions known for Peru. Other comprehensive collections, given by faculty and friends of the College, represent the Old World Paleolithic and Neolithic, Paleo-Indian, Eastern Woodland, Southwestern, Middle Mississippian and Mexican antiquities. These collections are shortly to be enlarged by osteological materials and casts of fossil hominids. There is also a small but growing collection

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of ethnomusical recordings, representing the music of native peoples in all parts of the world. Students are expected to make use of these materials and laboratory facilities; there are limited display areas available for those interested in working on museum exhibits.

LABORATORIES

Laboratories, classrooms and libraries for Biology, Chemistry, Geology, Mathematics and Physics are located in the three buildings of the Science Center. Laboratories and classrooms for Psychology remain in Dalton Hall.

In the Science Center the central building is the Marion Edwards Park Hall for Chemistry and Geology. Adjoining this building on the north is a building completed in 1958 for the biological sciences. South of Park Hall is the building for the physical sciences, completed in 1964, which provides additional space for Chemistry and Geology, all the laboratories for Physics and classrooms and a library for Physics and Mathematics.

In all three buildings in the Science Center and in Dalton Hall there are large laboratories and lecture rooms for undergraduate students and smaller seminar rooms and laboratories for graduate students. In addition to the usual equipment, the science departments have special apparatus and instruments needed in particular research projects by faculty and graduate students and acquired, in part, through the Plan for the Coordination of the Sciences and through research grants from industry and other private sources and from government agencies.

In the new building for the physical sciences there is a machine shop with expert machinists in charge and a student workshop available to graduate students. There are rooms in the Biology Building for work with radioactive materials, for microphotography and for glass blowing.

A Computer Center under the joint sponsorship of Haverford and Bryn Mawr Colleges is on the Haverford campus. It has an IBM 1620 computer and auxiliary record equipment for the use of students and faculty of both colleges. Computer-related machines are available in Dalton Hall on the Bryn Mawr campus.

The Geology Department makes available for study and research several important collections. On deposit from the United States Army Map Service are 25,000 maps. The Department's large collection of minerals has been greatly increased recently by the gift of the Mineral Collection of George Vaux, Junior.

LANGUAGE LABORATORY

The Modern Language Departments jointly maintain a Language Laboratory in Dalton Hall. Its library of tapes contains recordings from the various literatures as well as material especially prepared for language drills. The simple but versatile modern equipment offers opportunities to improve both the speaking and comprehension proficiency of the student of foreign languages.

HALLS OF RESIDENCE

There are on campus nine halls of residence, which provide full living accommodations for from 50 to 135 students. The newest of these, Eleanor Donnelley Erdman Hall, opened in September 1965. It was named in honor of Eleanor Donnelley Erdman, Class of 1921, and member of the Board of Directors, 1951-6. Denbigh Hall, Merion Hall, Pembroke East, Pembroke West and Radnor Hall are named for counties in Wales, recalling the tradition of the early Welsh settlers of the area in which Bryn Mawr is situated. Rockefeller Hall is named for its donor, John D. Rockefeller, and Rhoads North and South for the first president of the College, James E. Rhoads. In addition there are three smaller halls which constitute language houses for upperclassmen who wish to speak French, German or Spanish.

A college officer, the warden, is in charge of each residence hall. She is a member of the Dean's staff and is herself engaged in teaching or in studying for an advanced degree. She is interested in all aspects of each student's welfare and she works, as well, with the student officers in each hall.

The College offers a variety of living accommodations including a few suites and a limited number of double rooms. However, most students occupy single rooms. The College provides basic furniture but students supply their own rugs, curtains and any other accessories they may wish.

The maintenance of halls is the responsibility of the Director of Halls and a staff of managers. Food service is provided by a Philadelphia company. No special foods or diets can be obtained.

RULES FOR RESIDENCE

Residence in the college buildings is required of all undergraduates except those living with their families in Philadelphia or the vicinity. Married students are not admitted to residence.

A student enrolled in the College who plans to be married must inform the Dean of her intentions well in advance of the date of her marriage and must make arrangements for living that meet with the Dean's approval. Any student who marries during her college career without previously informing the Dean of her plan will not be permitted to remain in the College.

The College maintains the halls of residence in order to provide simple, comfortable living for its students. It expects students to respect its property and the standards on which the halls are run. A printed statement of residence regulations is given each student. The College makes every effort to keep the residence charge low; the present rates are possible only because the students have agreed to assume the major responsibility for keeping their rooms clean and in order, thus permitting a reduction in service. Failure on the part of a student to meet the requisite standard in the care of her room may cause the College to refuse her residence the following year.

All the undergraduate halls are closed during the Christmas vacation. One hall is kept open during the Spring vacation and here undergraduates may occupy rooms at \$2.00 per day.

NON-RESIDENT STUDENTS

For non-resident students, there is a suite of rooms in Erdman Hall containing study space, a kitchenette, dressing room and showers. College mail and campus notices will be sent there throughout the academic year. The warden of one of the halls of residence is also warden for the non-resident students. She will be available for advice and glad to help plan teas or any other special occasions which the non-resident students may be interested in arranging.

When space permits, non-resident students may make arrangements with the Director of Residence to have meals in the residence halls.

Non-resident students are liable for all undergraduate fees except those for residence in the hall. The non-resident Dispensary fee of \$25 entitles them to medical examination and consultation with the College Physician. For health fees, see page 42.

Non-Resident Enrolment Fee. A non-resident student who wishes to enroll for the following year must make a deposit of \$25 not later than June 1, which will be credited against the tuition charge. This fee will not be refunded in case of withdrawal.

Curriculum for the Class of 1968

ALL candidates for the A.B. degree regardless of their choice of major must complete the following courses: (1) English 15, (2) Philosophy 101 a & b, (3) one course in the natural sciences, (4) one course in literature, (5) one course in social science. These requirements may be met by (a) completing successfully an appropriate course at Bryn Mawr, (b) presenting the appropriate Advanced Placement Test of the College Entrance Examination Board with an honor grade,¹ or, (c) in exceptional circumstances, completing with a grade of at least C a summer school course approved in advance by the department concerned and by the Dean. Each student must also demonstrate a knowledge of two foreign languages. This may be done by (1) attaining a score of 590 on a College Board achievement test, taken in the senior year of high school,² or, by passing with an honor grade an Advanced Placement Test, (2) passing examinations offered by the College every spring and fall, or (3) passing with a grade of at least 70 a college course above the elementary level before the senior year.

All candidates for the A.B. degree must also meet the requirements set by the department in which they choose to major. These requirements are usually a sequence of four courses including at least one advanced course in the major subject and two courses in an allied subject. Students who have accepted the invitation to do Honors Work must also include at least one full unit of advanced course work in their programs. Most departments offer to their majors a series of conferences in preparation for the Final Examination which is the equivalent of an advanced course. A minimum of $15\frac{1}{2}$ units of work is required for the degree. Supplementary requirements for the degree include those in Hygiene and Physical Education.

1. The grade of 5 is required in English and in History.

2. Students admitted under the Early Decision Plan may offer tests taken in the junior year in high school.

Fees

TUITION

THE tuition fee for all undergraduate students, resident and non-resident, is \$1850 a year. The fee is payable on receipt of the bill sent in October. No reduction or refund of the tuition fee will be made on account of absence, illness, dismissal, or for any other reason.

The average cost of teaching each undergraduate student is about \$3550 a year. The difference must be met from income on endowment and from private gifts. Contributions from parents able and willing to pay the additional sum or part of it are most welcome and help to meet expenses of instruction.

RESIDENCE

The charge for residence is \$1150, \$1250 or \$1350, according to the size and location of the student's room. Residence fees are payable as follows:

\$1150—payable \$575 in October, \$575 in February

\$1250—payable \$625 in October, \$625 in February

\$1350—payable \$675 in October, \$675 in February

Application for Residence. A student in residence, who wishes to apply for a room for the following year, must make an application for a room in April. Each student enrolled for the following year must make a deposit of \$50 not later than June 1. This deposit will be credited against the residence charge.

New students applying for residence will be billed \$50 in April. This fee will be credited against the residence charge. It will not be returned in case of withdrawal after June 1.

New students assured admission under the Early Decision Plan are asked to make a room deposit of \$50 by February 1.

An applicant who, after having reserved a room, fails to cancel her reservation by July 15 (even though she does not occupy the room at all or vacates it during the college year) prevents some other student from obtaining accommodation and consequently admission to the College. Therefore, unless formal notice of withdrawal of application for the ensuing academic year is received by the Dean of the College by July 15, the applicant is responsible for the residence charge (based upon

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the room assigned to her) for the whole year, or if a definite room assignment has not been made, the applicant is responsible for the minimum residence charge of \$1150, subject to an allowance for the cost of food and a further allowance if the College re-rents the room to a student not previously resident. The applicant is not entitled to dispose of the room.

SUMMARY OF MAJOR EXPENSES

For resident students, tuition and residence: \$3000, \$3100, or \$3200 according to the type of accommodation.

For non-resident students, tuition: \$1850.

Minor Fees and Charges

Laboratory courses (or, in Geology, field work) for materials and apparatus:

One course of 2 hours or less a week	\$ 7.50	} a semester
One course of more than 2 hours a week	15.00	
Two courses of more than 2 hours a week	25.00	
Three courses of more than 2 hours a week	30.00	

Health Insurance (Students' Reimbursement Plan) 27.80 a year

Dispensary fee for non-resident students 25.00

Graduation fee (payable in the senior year) 20.00

Bills will be rendered by the Comptroller at the beginning of each semester. Students whose fees and charges are not paid before November 1 in the first semester and before March 1 in the second are not permitted to continue in residence or to attend their classes. The Education Plan is available for parents who prefer to pay fees in monthly instalments.

General Information

STUDENT ADVISING

THE Deans are responsible for the general welfare of undergraduates, and students are free to call upon them for help and advice on academic or more general problems. The Dean of the College and two assistant Deans are class advisers. The Dean of the College advises seniors, one assistant Dean advises sophomores and juniors, and another, the freshmen. A Scholarship Officer administers the financial aid program including loans as scholarship aids. The wardens of residence halls, who are members of the Dean's staff, also are ready to advise and assist students. The College Physician, the consulting psychiatrists, study counselors and vocational advisers are also available to all students. The deans and the wardens will give students information about appointments with these specialists.

For freshmen, the College provides a special period of orientation. Freshmen are asked to come into residence three days before the College is opened to upperclassmen. The wardens of the various halls and a committee of upperclassmen welcome them and are available to answer questions and give advice. Freshmen with their parents have interviews with the President and the Assistant to the President. In addition, freshmen have individual appointments with the Deans to plan their academic program for the year. New students also take placement tests and a physical examination. To acquaint them with the many other aspects of college life, activities are sponsored by the undergraduate organizations.

ACADEMIC STANDARDS AND REGULATIONS

Faculty rules governing academic work and the conduct of courses are stated in a booklet, "Academic Rules for Undergraduates," given to each freshman. All students are responsible for knowing the rules thoroughly. Rules concerning the Academic Honor System and student conduct are stated in the Self-Government Handbook.

Each student's academic work must be of sufficiently high quality to meet the academic standards set by the College. The Senate of the College, composed of one faculty member from each department, reviews the records of those students whose work has fallen below the required standard. In such cases the

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Senate may set specific requirements to be met by the student concerned and may also curtail privileges. In extreme cases the Senate may recommend exclusion from college.

Integrity of all work is demanded of every student. Information about the Academic Honor System dealing with the conduct of examinations, written quizzes, and other written work is given to all entering students, who must sign a statement that they have read, understood and accepted the rules. Any infraction of these regulations or any action contrary to their spirit constitutes an offense. Infractions are dealt with by an Administrative Board under the chairmanship of the President of the College. The members of the board are the four college-elected members of the Executive Board of the Bryn Mawr Students' Association for Self-Government, three members of the Faculty and the Dean of the College or the Assistant Dean.

ATTENDANCE AT CLASSES

Regular attendance at classes is expected. Responsibility for attendance rests solely with each student. In general no attendance records are kept, except where an instructor has requested that attendance be taken. Each instructor will make clear his view concerning absence from class.

Students should note that instructors are not notified of absences because of illness unless a student has missed three days of classes.

Absences for health or other urgent reasons are excused by the Dean, but any work missed must be made up. After a brief absence the student should consult her instructors about making up the work. In the case of a prolonged absence the Dean must be consulted as well as the instructors. If it seems probable to the Dean that a student's work may be seriously handicapped by the length of her absence, she may be required to drop one or more courses. Any student absent for more than twenty-five consecutive class days will generally be required to drop a course.

EXCLUSION

The College reserves the right to exclude at any time a student whose conduct or academic work is unsatisfactory. In such cases the fees due or already paid to the College will be neither refunded nor remitted in whole or in part.

HEALTH

An extensive program, including periodic physical examinations and regular work if needed or desired during the first two

years in the Department of Physical Education, has been established to help students develop and maintain optimum conditions of health. Students receive clinic and hospital care in the College Dispensary and Infirmary, where a College Physician is in daily attendance. The College maintains a modern 22-bed infirmary with a full staff of physicians and nurses. Additional medical and surgical facilities are available at the Bryn Mawr Hospital and in nearby Philadelphia.

Students receive out-patient care in the college dispensary and in-patient care when necessary in the Infirmary. With the exception of continuing psychiatric appointments, medical consultations are free of charge. Charges for psychiatric care are arranged individually. No student while in residence should consult an outside physician without previously informing the College Physician. Any student who leaves the campus for reasons of health must notify the Dean, the College Physician or Head Nurse before she leaves.

Certain health regulations must be met by all entering students. A medical examination blank provided by the College must be filed before July 1. As part of this health report, certification of immunization against tetanus, diphtheria and poliomyelitis, vaccination against smallpox, a Mantoux test and ophthalmologist's certificate are required. If the Mantoux test is reported positive a chest X-ray is necessary. Students who have failed to hand in these reports will have the necessary examinations and immunizations on arrival and will be charged accordingly.

The ophthalmologist's examination must be repeated before the beginning of the junior year. Failure to meet this requirement necessitates an examination by one of the College consultants, for which the student will be charged as a private patient by the ophthalmologist who makes the examination.

Every student with a health problem will be examined by the College Physician upon entering College and as often thereafter as necessary. Every undergraduate is examined by the College Physician in her senior year. A student who at any time is found not to be in good health is required to follow the special regimen prescribed by the College Physician, including any necessary limitations on academic or extracurricular activities.

The residence fee paid by resident students entitles them to treatment in the College Dispensary and to care in the College Infirmary for seven days, not necessarily consecutive, during the year, to attendance by the College physicians during this time

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and to general nursing. In cases requiring a special nurse, the expense incurred must be paid by the student. This is mandatory in cases of serious illness and strict isolation. The fee for each day in the Infirmary after the seven-day period is \$15. The Infirmary is open when college is in session and during spring vacation. It is closed during Christmas vacation.

Non-resident students must pay a fee of \$25, which entitles them to unlimited dispensary and laboratory service and free consultation with the College physicians and psychiatrists. Married non-resident students who maintain their own homes need not pay the fee unless they desire dispensary privileges.

All communications from parents and guardians, outside physicians and others, concerning the health of the students, should be addressed to the Dean of the College or to the College Physician. Any student who becomes ill when absent from College must notify the Dean of the College immediately and present to the Infirmary when she returns a signed statement from her physician.

The College reserves the right, if the parents or guardians cannot be reached, to make decisions concerning operations or other matters of health.

The College has arranged for health insurance, known as the Students' Reimbursement Plan. Individual policies providing reimbursement for medical, surgical and hospitalization expenses within specified limits are available to resident students. The cost is \$27.80 a year and includes protection during all vacations. Application forms may be obtained from the Comptroller.

THE EDUCATION PLAN

For parents who wish to pay college fees on a monthly basis, the College offers the Education Plan in cooperation with the Bryn Mawr Trust Company. To finance a single year's cost it is necessary to sign an agreement at the beginning of the academic year. Contracts include the benefit of parent life, total and permanent disability insurance. For information regarding the plan, write to the Business Manager of the College.

INSURANCE

The College is not responsible for loss due to fire, theft or any other cause. Students who wish to insure against these risks should do so individually or through their own family policies.

Curriculum

IN 1965 the Bryn Mawr faculty approved changes in curriculum recommended by a special committee after a two-year review. The new plan of study for the Class of 1969 and later classes takes into account both the changes of recent years in secondary school education and the expectation of graduate school on the part of a larger proportion of students. It provides greater flexibility and makes it possible for students to include a wider range of fields of knowledge and to have greater freedom to explore and elect. One way in which greater flexibility has been achieved is to include all departments of the College in a divisional system, thus allowing both humanist and scientist a greater variety of ways in which to meet college requirements. The plan for the curriculum may be outlined as follows:

I. All candidates for the A.B. degree shall present 16 units¹ of work. In most cases a unit of preparation for the Final Examinations in the Major Subject will constitute one of these units.

II. All students must present as a requirement for the degree one unit of work from each of the following four divisions.

Group I

History
Philosophy
Anthropology
Economics
Education
Political Science
Psychology (Social)
Sociology

Group II

Biology
Chemistry
Geology
Physics
Psychology 101
Mathematics

Group III

English Literature²
Modern Literatures
Classical Literatures
(The foreign literatures at the level presently permitted under the literature requirement)

Group IV

History
Philosophy
Archaeology
History of Art
History of Music
History of Religion

1. A unit of work is the equivalent of eight semester hours and is either a year course, or when appropriate, two one-semester courses.

2. In special cases and with the approval of the Curriculum Committee, Biblical Literature will serve as fulfilling the literature requirement.

The following directions and qualifications are to be noted:

a. A student (not majoring in subjects under Group II) may elect a second course¹ under Group II as an alternative to any one of her other divisional requirements.

b. No course may satisfy more than one divisional requirement. Students majoring in History or Philosophy may count a course in their major as satisfying the requirement in *either* Group I or Group IV, but not both.

c. Courses taken to satisfy the requirements in English and Languages or Mathematics described below do not count as fulfilling divisional requirements.

III. In addition to the divisional requirements, each student must:

A. Include in her program two semesters of English composition (English 15) unless by a score of 5 on the Advanced Placement Test she has shown evidence that she has already attained proficiency at this level.

B. Achieve a certain level of proficiency in languages or in one language and mathematics, the level to be demonstrated in one of the three following ways:

1. She may demonstrate a knowledge of two foreign languages by

a. passing an examination offered by the College every spring and fall, or

b. passing with a grade of at least 70 a College course above the elementary level (such courses must be completed before the senior year), or

c. attaining a score of at least 590 (in one language) on a College Board Achievement Test taken in December or January of the senior year of high school and/or by passing with an honor grade an Advanced Placement Test.

1. Mathematics may be chosen as this second course, but may not be chosen as fulfilling the Group II requirement if only one course in that group is taken.

2. She may offer one language to be tested as described above and demonstrate proficiency in mathematics by

a. attaining a grade of 4 or 5 on the Advanced Placement Test, or

b. passing an examination offered by the Department of Mathematics each spring and fall, or

c. achieving a grade of at least 70 in Mathematics 101, 103, or a more advanced course.

3. She may offer one language to an advanced level of proficiency to be demonstrated by passing with a grade of at least 70 one course or two semester courses at the 300 level.

IV. At the end of the sophomore year each student must choose a major subject, and in consultation with the departmental adviser plan an appropriate sequence of major and allied courses; she must also make plans for fields which she will offer in the Final Examinations in the Major Subject and the kind of preparation for these examinations which she will undertake. Usually a major is made up of four courses, two courses of allied work, the equivalent of one advanced course in preparation for Final Examinations in the Major Subject, and these examinations in the spring of the senior year. No student may be required to offer more than six units of work in the major subject. Students invited to participate in the Honors program count the Honors project as one of the major subject units.

In brief outline, each student's program will include:

1. a unit of work in English, unless she is exempt
2. work to achieve the required level of proficiency in
one language, or
two languages, or
one language and mathematics
3. four units of work, one from each of the divisions I-IV
4. a major subject sequence of at least four units of work and two units of allied work
5. elective units of work to complete an undergraduate program of at least 16 units.

Each major department offers Honors work to a number of its senior students who have demonstrated unusual ability. Honors work is of a more advanced character than that done in the regular courses and requires more initiative and power of organization than is usually expected of undergraduate students. Such work may be carried on in connection with an advanced course or may be planned especially for individual students. It usually includes independent work of a critical and analytical nature with source material, periodic reports and the preparation of an Honors paper. To be eligible a student must have completed two years of study in the major subject, and her candidacy must be approved by the Dean and the Curriculum Committee. The Honors work must be undertaken in addition to at least one full unit of advanced course work.

Numerical grades on the scale of 100 are given in all courses counting for the degree. Each student must attain a grade of 70 or above in at least half of these courses and a grade of at least 60 in the remainder. In all courses in her major subject, she must attain grades of 70 or above. Should she receive a grade below 70 in a second-year or advanced course in the major subject, she may be required to change her major.

The degree of Bachelor of Arts is conferred upon students who have completed the course of study described above. The degree is awarded *cum laude*, *magna cum laude*, and *summa cum laude* to students whose numerical average in all their courses is 80-84, 85-89, 90 or above respectively. To students who have completed Honors work in their major subject the degree is awarded with honors in that subject.

Credit for work taken elsewhere is given as follows:

1. Transfer credit (see page 30)
2. Cooperation with Neighboring Institutions

Under the Three-College Plan for Cooperation, full-time students at Bryn Mawr may register for courses at Haverford College and Swarthmore College without payment of additional fees. Such registration must be approved by the Dean and the departments concerned. Credit toward the Bryn Mawr degree will be granted for such courses.

Students at Bryn Mawr may register for courses at Haverford (1) in order to include in their programs work not offered at Bryn Mawr, (2) in order to solve problems of

schedule conflicts when courses are offered at both colleges and (3) whenever major departments advise.

Students registered for courses at Haverford should note that Haverford courses begin on the half hour and therefore be certain that their schedules allow for transportation time.

3. Summer School Work

Students desirous of supplementing their work at Bryn Mawr by taking courses in summer school are encouraged to do so after their freshman year. Students who wish to present summer school work for credit should first obtain approval of their plan from the Dean and from the department concerned. No credit will ever be given for work in which a student has received a grade below 70. Credit given will be calculated on an hour-for-hour basis.

Supplementary requirements for the Degree are:

1. In addition to completing the course of study outlined above, all candidates for the A.B. degree must take the following work:

- a. Hygiene

All students must meet the requirements in Hygiene by passing an examination based on reading assigned by the College Physician and the Consulting Psychiatrists and given annually. The examination must be taken no later than the autumn of the junior year.

- b. Physical Education

All students must meet the requirement in Physical Education. (See page 129.)

2. Residence—Every candidate for the degree of Bachelor of Arts unless she is a transfer student or is permitted to accelerate her program must attend Bryn Mawr College for a period of four years. Students admitted on transfer from other colleges must study at Bryn Mawr for at least two years.

3. Full Program of Work—With few exceptions, all students carry a complete program and no student may spend more than the equivalent of the four undergraduate years in completing the work for the A.B. degree.

PREMEDICAL PREPARATION

Bryn Mawr, through the curriculum in liberal arts and sciences, provides the opportunity of meeting requirements for admission to the leading medical schools of the country, and each year a number of its graduates enter these schools. The minimal requirements for most medical schools are met by the following courses: Biology 101, Chemistry 101, Chemistry 202, Mathematics 101, Physics 101. Some medical schools also stipulate Chemistry 201a and 203, and reading facility in French and German.

The requirements are fulfilled by a major in Biology, with the election of Mathematics 101 and Physics 101, or by a major in Chemistry, with the election of Biology 101. They can be met by a major in other subjects, such as literature or history, with careful planning of the student's courses during her four years at Bryn Mawr and some work in the summer at an institution giving summer courses acceptable either to Bryn Mawr in substitution for its regular course work, or to the medical school of the student's choice as preparation for its courses of study.

The College is able to award a number of scholarships for medical study from funds given for that purpose by friends interested in the advancement of women in medicine. These may be applied for on admission to medical school and are awarded at the end of the senior year for use during the first year of medical study, with the prospect of renewal for later years if the student's need and her record in medical school warrant it.

PREPARATION TO TEACH

Students majoring in a liberal arts field which is taught in the secondary school may, by appropriate planning early in the undergraduate career, prepare themselves to teach in the public junior and senior high schools. A conference with Mrs. Cox or Mrs. Maw in the Department of Education is urged upon students who are considering the possibility of entering the teaching profession. Every state requires that candidates for teaching positions present a certificate issued by its state department of public instruction. Training and field experience leading to the certificate vary somewhat from state to state but the pattern is similar. Students at Bryn Mawr who earn teaching credentials valid in the state of Pennsylvania will usually be able to satisfy certification requirements in other states.

COORDINATION IN THE SCIENCES

In 1935, a grant from the Carnegie Corporation of New York enabled the College to put into operation a Plan for Coordination in the Sciences. Under the plan, the science departments offer an unusual kind of science training, providing instruction in overlapping fields of natural science and related subjects. The program necessarily demands a thorough grasp of the fundamentals of at least two sciences, and usually also of mathematics. This training may be obtained in the first three years of undergraduate study and the interrelated work begun in the senior year and continued in the Graduate School.

Through the grant, the College is also able to offer both undergraduate and graduate scholarships to students who wish to prepare themselves for future work in these extremely fruitful areas of scientific investigation. The chairmen of the departments included in this plan (Biology, Chemistry, Geology, Mathematics, Physics, Psychology) will be glad to see students interested in it and to advise them about their courses of study. Such students should consult with the chairmen of the departments in which their special interests lie as early as it is possible to do so.

INTERDEPARTMENTAL COURSES

Each year, certain courses are offered which cut across well-defined areas of knowledge and emphasize relationships among them. Such courses are taught by two or more members of the faculty working in close cooperation. Since the material considered requires some background in at least two disciplines, the interdepartmental courses are usually offered at the advanced level, the exception being Interdepartmental 102, *Introduction to Chemistry and Physics*. For students who have progressed to the more complex aspects of their major subjects, the interdepartmental courses provide an opportunity to apply their training to new and broader problems and to benefit from the experience of seeing their own subject from the points of view of several specialists. To facilitate free discussion registration is generally restricted to a limited number of well-qualified students.

LANGUAGE HOUSES

Three small residence halls serve as language houses for upper-classmen who wish to speak French, Spanish or German. Soph-

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omores, juniors or seniors who wish to live in a language house should apply to the head of the appropriate department. Adequate preparation in the language is a prerequisite and those who are accepted agree not to speak English at any time. Residence in a language house provides an excellent opportunity to gain fluency in speaking a foreign language and is highly advisable for students planning to spend the junior year abroad.

INSTITUT D'ÉTUDES FRANÇAISES D'AVIGNON

Bryn Mawr College offers a summer program of intensive work in significant aspects of French culture. The program is open to men and women students from other colleges. Certain of the courses carry graduate credit. The *Institut* director and faculty members are French professors teaching in colleges and universities in the United States and France. Classes are held in the Palais du Roure and the facilities of the Bibliothèque Calvet are available to the group. Students live with families in Avignon. Applicants for admission must have strong academic records and have completed a course in French at the third-year college level or the equivalent. For detailed information concerning admission, curriculum, fees, academic credit and scholarships, students should consult Dr. Michel Guggenheim of the Department of French.

CENTRO DE ESTUDIOS HISPÁNICOS EN MADRID

Bryn Mawr also offers a summer program of intensive work held in Madrid, Spain. The program, under the direction of a member of the Department of Spanish, is open to men and women students from other colleges. The instructors are members of college and university staffs who are familiar with teaching standards and practices in this country.

Courses are offered both for the student whose interest is Spain and for the student who wishes to specialize in Latin American affairs. Students live with Spanish families. All participate in study trips and attend an excellent series of carefully planned lectures and cultural events. Applicants must have strong academic records and must have completed the equivalent of three years of college-level Spanish. For information students should consult Dr. Phyllis Turnbull of the Department of Spanish. A small number of scholarships is available each year. The *Centro* was made possible by a grant from the Henry L. and Grace Doherty Charitable Foundation of New York.

THE JUNIOR YEAR ABROAD

Qualified students may apply for admission to certain groups which offer a junior year in Europe. Bryn Mawr students may study in Paris under the junior year plans sponsored by Sweet Briar and Smith Colleges or at *L'Académie*; in Geneva, Florence, Hamburg, or Madrid with groups organized by Smith College, or in Munich or Freiburg with the group sponsored by Wayne University. Applicants must have excellent academic records and must give evidence of competence in the language of the country in which they plan to study. In general, two years of study at the college level are necessary to provide adequate language preparation. The junior year groups are not limited to language majors; they often include majors in, for example, History of Art, History or the social sciences. All students who plan to study abroad should consult the chairmen of their major departments to be certain that the work done in Europe may be coordinated with the general plan for the major subject.

SCHOLARSHIPS AND OTHER STUDENT AID

All students are, strictly speaking, on scholarship in the sense that their tuition fees do not wholly cover the costs of instruction. To those students well-qualified for education in liberal arts and sciences but unable to meet the college fees, Bryn Mawr is able to offer further scholarship aid. Alumnae and friends of the College over many years have built up endowment for scholarships. Annual gifts from alumnae and alumnae clubs and from industrial and professional groups add to the amounts available each year. It is now possible to provide at least partial scholarships for one quarter to one third of the undergraduate students in the College. Full information about the scholarships available and other forms of help for meeting the expenses of college education will be found in the section, Financial Aid.

Courses of Study

1967 / 1968

Key to Course Numbers and Symbols

1, 2, 3 . . .

indicate elementary and intermediate courses.

With the exception of Greek 1 and Russian 1 these courses are not part of the major work.

101, 102, etc. . . .

indicate first-year courses in the major work.

201, 202, etc. . . .

indicate second-year courses in the major work.

301, 302, etc. . . .

indicate advanced courses in the major work.

* . . . indicates elective courses, open to all students without prerequisite unless a specific prerequisite is stated.

a . . . the letter "a," following a number, indicates a half-course given in the first semester.

b . . . the letter "b," following a number, indicates a half-course given in the second semester.

c . . . the letter "c," following a number, indicates a half-course given two hours a week throughout the year.

[] . . . Square brackets enclosing the title of courses indicate that these courses are not given in the current year.

In general, courses listed as full-year courses must be carried through two semesters. In some cases one semester of such a course may be taken with credit, but only with permission of the Dean of the College and the Department concerned. Students are reminded that one unit of work carried throughout the year is the equivalent of eight semester hours, or eleven quarter hours.

Haverford College courses are listed by number as they appear in the Haverford catalogue.

Anthropology

PROFESSOR: FREDERICA DE LAGUNA, PH.D., *Chairman*

ASSISTANT PROFESSORS: HERBERT L. ALEXANDER, JR., M.A.
JANE C. GOODALE, PH.D.¹

LECTURER: LILO STERN, PH.D.

PROFESSOR OF MUSIC: AGI JAMBOR, M.A.

INSTRUCTOR IN LINGUISTICS: ALISON A. ANDERSON, PH.D.

The aim of the major is to introduce the student to an understanding of man and his works, human evolution, the origin and development of culture, and the basic cultural patterns and social institutions in diverse societies. The advanced courses explore special fields or areas, and also discuss theories about cultural processes and the nature of culture itself.

REQUIREMENTS IN THE MAJOR SUBJECT: 101, 203a & b, 204 or 208, 301a and an additional half-unit of advanced work.

ALLIED SUBJECTS: Biology, Classical and Near Eastern Archaeology, Economics, English Literature, Geology, History, History of Art, Linguistics, Philosophy, Political Science, Psychology, Sociology.

101. *Man, Culture and Society*: Mr. Alexander, Miss de Laguna, Miss Stern.

Man's place in nature and the development of his capacity for culture; the history of human culture to the rise of the early civilizations in the Old and New Worlds; forms of culture and society among primitive peoples.

203a. *Primitive Society*: Miss Stern.

Analysis of social organization of pre-literate societies. Prerequisite: Anthropology 101.

1. On leave, 1967-8.

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203b. *Primitive Culture*: Miss Stern.

Analysis of significant studies of culture illustrating problems in ethnography. Prerequisite: Anthropology 203a.

[204. *American Archaeology*: Mr. Alexander.]

205c.* *Ethnomusicology*: Mme. Jambor.

The history and development of folk music; a comparative study. The materials studied will be taken from the cultures of Africa, the American Indians and others.

206b.* *Native Cultures of Latin America*: Mr. Alexander.

208. *Old World Prehistory and Human Evolution*: Mr. Alexander.

Prerequisites: Anthropology 101, Biology 101, Geology 101, Classical Archaeology 101, or permission of instructor.

[209b.* *The American Indian*.]

301a. *Cultural Theory*: Miss de Laguna.

Analyses of the important classical and modern contributions. Prerequisite: Anthropology 203a & b, or by permission of instructor.

[303a. *Ethnological Problems in Oceania*.]

Prerequisite: Anthropology 203a & b.

303b. *Peoples and Cultures of Africa*: Miss Stern.

Prerequisite: Anthropology 203a & b, or permission of instructor.

[304a. *Culture and Personality*.]

FINAL EXAMINATION: The final examination for students majoring in Anthropology is in three parts:

1. Cultural Anthropology.
2. History and Theory.
3. A special field in Anthropology, or an allied field.

Preparation for these examinations is offered in the form of advanced courses and the Senior Seminars: *Problems in Ethnography*, (Miss Stern) and *Problems in Culture History*, (Mr. Alexander).

INDEPENDENT WORK is offered to seniors of marked ability. If undertaken successfully the first semester, it may be continued as Honors Work.

Biology

PROFESSORS: L. JOE BERRY, PH.D., *Chairman*¹

ROBERT L. CONNER, PH.D.²

JANE M. OPPENHEIMER, PH.D.

ASSISTANT PROFESSORS: AUDREY BARNETT, PH.D.

WILLIAM G. HOPKINS, PH.D.

VISITING LECTURER: LILA L. GATLIN, PH.D.

LECTURER: JANE R. McCONNELL, PH.D.

INSTRUCTOR: ROBERT J. MOON, B.A.

ASSISTANTS: CLAUDIA F. BAILEY, M.A.

AZRA SEDET, B.A.

The courses offered are designed to present the principles underlying biological science to liberal arts students interested in man's understanding of the world in which he lives and his own position in it. Primary consideration is devoted to the interplay of development, structure and function in determining the unity and diversity which characterize the plant and animal kingdoms, and to the historical and dynamic interrelationships of living organisms with each other and with their environments. In the laboratory the student learns by dissection and microscopic study the gross and detailed anatomy of representative animals and plants, and by experimentation the functional relationships within them and their operation under natural and controlled experimental conditions.

REQUIREMENTS IN THE MAJOR SUBJECT: Biology 101, 201, 301, and at least one advanced course and, as allied work, Chemistry 101 and 202. Physics 101, Mathematics 101 and Chemistry 201 are strongly recommended as allied work and are required for admission to some medical schools. The Biology Department has no special language requirements, but students should note that the ability to read French and German is essential for those

1. On leave, semester I, 1967-8.

2. Acting Chairman, semester I.

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expecting to do graduate work and is required for admission to some medical schools.

ALLIED SUBJECTS: Chemistry, Physics. Other subjects may be included with the approval of the Department.

101. *General Biology*: Miss Barnett, Mr. Conner, Miss Oppenheimer, Mr. Hopkins. Laboratory: Mrs. McConnell and assistants.

A presentation of the fundamental principles of cellular and organismic biology. A wide range of plants and animals is studied to illustrate broad biological problems and theories of historical and contemporary interest. Lectures three hours, laboratory three hours per week.

- 201a. *Developmental Biology*: Miss Oppenheimer.

A presentation of some of the fundamental aspects of experimental embryology. The laboratory encompasses the structural study of vertebrate embryology. Lectures three hours, laboratory four hours per week. Prerequisite: Biology 101.

- 201b. *Genetics*: Miss Barnett.

A study of the basic principles of genetics and the modern developments in the field. Lectures three hours, laboratory four hours per week. Prerequisite: Biology 101.

301. *Physiology*: Mr. Conner, Mr. Hopkins, Mr. Berry.

An integrated course devoted to a study of the activities of cells in terms of physical and chemical processes and of organismic functions characteristic of plants and higher vertebrates. Lectures three hours, laboratory four hours per week. Prerequisites: Biology 101 and 201, Chemistry 101 and 202. Chemistry 202 may be taken concurrently.

- [351. *Advanced Genetics*: Miss Barnett.]

Selected topics in genetics. Each semester may be taken independently for one-half unit of credit. Lectures three hours per week. No laboratory. Prerequisite: Biology 201b.

352. *Advanced Plant Physiology*: Mr. Hopkins.

A study of recent advances in photosynthesis and photomorphogenesis of plants. Lectures two hours, laboratory six hours per week. Prerequisites: Biology 301, Chemistry 202. Chemistry 202 may be taken concurrently.

353. *Biochemistry*: Mr. Conner.

The chemistry of living organisms with special emphasis on the chemical principles in physiological phenomena. Lectures two hours per week. Prerequisites: Chemistry 202, Biology 301; one or both of these prerequisites may be waived by permission of the Department. Physics 101 is recommended. This course may be taken without laboratory for one-half unit of credit by students concurrently taking Chemistry 203, an advanced course in Biology.

354. *Bacteriology and Immunology*: Mr. Moon, Mr. Berry.

An introduction to the fundamental physiological and biochemical principles associated with studies of micro-organisms, including host-parasite relationships and the immune response of animals. Lectures two hours, laboratory six hours per week. Prerequisites: Biology 101 and 201, Chemistry 202.

[355. *Developmental Biology*: Miss Oppenheimer.]

Discussion of factors controlling growth and differentiation in vertebrates and invertebrates. Lectures two hours, laboratory six hours per week. Prerequisites: Biology 101 and 201.

HONORS WORK: Honors work in any of the advanced fields is offered to qualified students.

FINAL EXAMINATION: The Final Examination consists of one four-hour general examination covering the areas of study of the four years of undergraduate work and two four-hour examinations in specific fields. Students who elect Honors work are excused from one of the field examinations.

Chemistry

PROFESSORS: ERNST BERLINER, PH.D., *Chairman*

GEORGE L. ZIMMERMAN, PH.D.

ASSOCIATE PROFESSORS: JAY MARTIN ANDERSON, PH.D.

FRANK B. MALLORY, PH.D.¹

JOSEPH VARIMBI, PH.D.

LECTURER: FRANCES BONDHUS BERLINER, PH.D.

ASSISTANTS: ROBERT J. FERGUSON, B.A.

PRABHAT C. GOSWAMI, M.S.

MARY H. PERRY, B.A.

JANE SAMUELS, B.S.

The major in Chemistry is designed to give the student a sound background in the four major fields of Chemistry: Inorganic, Analytical, Organic and Physical Chemistry. The courses are arranged in such a sequence as to convey an insight into the development of chemical theories from basic scientific principles. In the advanced courses the student begins to be acquainted with current problems in special fields and with modern approaches to their solutions. The emphasis throughout is on the fundamental principles on which Chemistry is based and which are exemplified and further clarified by laboratory work taken in conjunction with each course.

REQUIREMENTS IN THE MAJOR SUBJECT: Chemistry 101 or 102, the three 200 courses and one unit of advanced work (exclusive of Chemistry 304a). Physics 101, Mathematics 101 and a reading knowledge of German are also required. Students are urged to take also Mathematics 201.

ALLIED SUBJECTS: Biology, Geology, Mathematics, Physics.

101a. *General Chemistry*: Mr. Mallory, Mrs. Berliner and assistants.

An introduction to the theories of chemistry and the study of the non-metals. Introductory quantitative techniques. No

1. On leave, semester II, 1967-8.

knowledge of chemistry is presupposed. Three lectures, three hours laboratory a week.

- 101b. *General Chemistry*: Mr. Berliner, Mrs. Berliner and assistants.

Ionic equilibria and the systematic qualitative analysis of inorganic substances. A study of the metallic elements. Three lectures, three laboratory hours a week.

102. *Introductory Chemistry and Physics*: Mr. Michels, Mr. Varimbi, Miss Hoyt.

See Interdepartmental Course 102, page 128.

201. *Inorganic Chemistry*: Mr. Varimbi.

Correlations of chemical and physical properties based on the Periodic Table; Structures of inorganic compounds; Equilibria in acid-base and complex-ion systems. Laboratory work includes analytical techniques, synthesis, purification, and characterization of a variety of compounds by chemical and instrumental methods. Three lectures, five hours laboratory a week.

202. *Organic Chemistry*: Mr. Berliner, Mrs. Berliner.

First semester: aliphatic chemistry; second semester: aromatic chemistry and natural products. Three lectures, five hours laboratory a week.

203. *Physical Chemistry*: Mr. Zimmerman.

Structure and kinetic-molecular theory of matter, elementary thermodynamics and chemical kinetics. Two lectures and one conference, five hours laboratory a week. Prerequisites: Mathematics 101, Physics 101 and Chemistry 201a. (The latter two may be taken concurrently.)

- 301b. *Advanced Inorganic Chemistry*: Mr. Anderson.

Two lectures a week.

- 302a & b. *Advanced Organic Chemistry*: Mr. Mallory, Mr. Berliner.

Lectures: theories and fundamental principles of organic chemistry. Laboratory: (first semester) organic qualitative analysis; (second semester) advanced synthesis and laboratory techniques. Two lectures, six hours laboratory a week. The first semester may be taken without the second ($1\frac{1}{2}$ unit).

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303a. *Quantum Mechanics of Atoms and Molecules*: Mr. Zimmerman.

Two lectures and one conference a week. Corequisite: Chemistry 304a.

303b. *Spectroscopy and Thermodynamics*: Mr. Anderson.

Two lectures and one conference a week, laboratory six hours a week. Prerequisite: Chemistry 303a.

304a. *Applied Mathematics for Chemists*: Mr. Anderson.

Two lectures and one conference a week. Prerequisite: Mathematics 201, or the equivalent.

Computer Programing for Chemists: Mr. Anderson, with the staff of the Computer Center.

Fortran language and the use of the IBM 1620 computer and other data-processing equipment; numerical methods as applied to chemical problems. A non-credit half-course meeting throughout the year, three hours every other week, intended primarily for junior and senior chemistry majors. Prerequisites: Mathematics 101, or the equivalent.

FINAL EXAMINATION: The examination consists of three parts: a. Analytical and Inorganic Chemistry, b. Organic Chemistry, c. Physical Chemistry.

For one of the subjects above, an examination in an allied subject, covering at least two years of work, may be offered.

HONORS WORK: Honors work may be taken by qualified students in conjunction with any of the advanced courses.

Classical and Near Eastern Archaeology

PROFESSOR: MACHTELD JOHANNA MELLINK, PH.D., *Chairman*

ASSOCIATE PROFESSOR: BRUNILDE SISMONDO RIDGWAY, PH.D.¹

ASSISTANT PROFESSOR: KYLE M. PHILLIPS, JR., PH.D.

INSTRUCTOR: NANCY BOOKIDIS, PH.D.

ASSISTANT: TAMARA R. S. WHEELER, A.B.

The major courses provide an extensive survey of the ancient Mediterranean civilizations, with emphasis on the Greek arts of sculpture, architecture and vase-painting.

REQUIREMENTS IN THE MAJOR SUBJECT: Archaeology 101, 201b, 203, 205b and 301.

ALLIED SUBJECTS: Ancient History, Anthropology, Greek, History of Art, Latin.

101. *An Introduction to Ancient Art*: Mrs. Ridgway, Mr. Phillips.

In the first semester a general survey of the evolution of ancient art is given, beginning with the Egyptian and Mesopotamian heritage, its importance to Aegean art and to the origins of Greek art proper. The major achievements of archaic and classical Greek art are discussed in some detail.

In the second semester the principal features of Hellenistic, Etruscan and Roman art in Italy and throughout the Mediterranean world to the end of the Roman Empire in the West, ca. A.D. 476, are studied.

A fourth hour weekly is devoted to informal discussion.

[201b. *Egyptian and Mesopotamian Archaeology*: Miss Mellink.]

[202a.* *Cultural History of Archaeology*: Miss Mellink.]

[202b. *Ancient Greek Cities and Sanctuaries*: Mrs. Ridgway.]

203a. *Greek Sculpture*: Mrs. Ridgway.

The development of Greek sculpture from its beginnings to Roman times. The term paper deals with a piece of sculpture selected by the student.

1. On leave, semester II, 1967-8.

203b. *Later Greek and Roman Sculpture*: Mr. Phillips.

The development of Roman sculpture from its beginnings in Etruscan and Greek Italy and the Hellenistic world to the end of the Roman Empire in the West, ca. A.D. 476. The term paper deals with individual monuments or groups of sculpture selected by the student.

205b. *Aegean Archaeology*: Miss Mellink.

The pre-Greek cultures of the Aegean area; Minoan Crete and related cultures, the encounter of pre-Greeks and Hellenes; the first consolidation and expansion of Greek culture in the Mycenaean age.

301a. *Greek Vase-Painting*: Mr. Phillips.

The development of Greek vase-painting as an original form of art, its relation to monumental painting, and its place in Greek archaeological research.

301b. *Ancient Architecture*: Miss Bookidis.

The ancient architectural tradition in its historical context, with study of the Greek temple as its dominant achievement.

[302a. *The Greek Style in Art*: Miss Mellink.]

An analysis of the originality and consistency of style in the various fields of Greek art. The course will be conducted as a discussion group with reports and a term paper. Prerequisites: Classical and Near Eastern Archaeology 101, 201, 203, 301.

[303. *Anatolian and Syrian Archaeology*: Miss Mellink.]

A comprehensive course on Near Eastern archaeology with special emphasis on the peripheral and intermediate areas and their connections with the Aegean. Prerequisites: Archaeology 101, 201, 203, 301. The course is meant for seniors and is taught in the form of a seminar with papers and reports.

304a. *Ancient Monumental Painting*: Mr. Phillips.

The arts of wall-painting and mosaics in Greece and Italy.

FINAL EXAMINATION: One general examination in pre-classical (Egyptian, Mesopotamian, Aegean) and classical archaeology; two special examinations in fields covered by the undergraduate courses, but with questions of a broader scope. Students are encouraged to take one of the special examinations in Greek. During the senior year, majors attend weekly conferences in each of their special fields.

HONORS WORK: A long written paper is submitted on a topic selected by the student and approved by the Department. In preparation, the student confers throughout the year with the member of the Department under whose direction the paper is prepared.

EXCAVATIONS: The Department has two excavation projects. The excavation of Karatas-Semayük in Lycia (Turkey) is conducted as a field seminar in the fall, with full credit for graduate students and seniors by invitation. The second project, the excavation of an Etruscan archaic site at Murlo near Siena, takes place during the summer on a non-credit basis for graduate and undergraduate students of archaeology.

Economics

PROFESSORS: MORTON S. BARATZ, PH.D., *Chairman*
JOSHUA C. HUBBARD, PH.D.

ASSISTANT PROFESSORS: RICHARD B. DU BOFF, PH.D.
GEORGE I. TREYZ, A.B.

AT HAVERFORD

PROFESSORS: HOLLAND HUNTER, PH.D.
HOWARD M. TEAF, JR., PH.D.
PHILIP W. BELL, PH.D.

The major in Economics consists of courses given at Bryn Mawr and at Haverford Colleges. It is designed (1) to provide students with an understanding of economic processes and institutions, (2) to train them in the concepts and methods used to analyze those processes and institutions, and (3) to enable them to make independent policy judgments.

REQUIREMENTS IN THE MAJOR SUBJECT: Economics 101a and 102b, and four and one-half units of intermediate and advanced work. The introductory courses, Economics 101a and 102b, are designed to give the kind of informed perspective on economic principles and problems that is an integral part of a liberal education. The group of intermediate courses offers a fuller range of material on major topics in the discipline, and is designed to meet a wide

variety of student interests. The group of advanced courses supplies a theoretical and methodological foundation for those planning to make use of economics in their professional careers. All students, especially those who intend to seek an advanced degree in Economics, are strongly urged to take Mathematics 101 or 103, which will count as part of their allied work.

Prospective majors in Economics are advised to take Economics 101a and 102b in the freshman year.

ALLIED SUBJECTS: Mathematics, Political Science, History, Philosophy, Psychology, Sociology, Anthropology.

101a. *Introduction to Economics*: Mr. Baratz, Mr. Du Boff, Mr. Hubbard.

Study of the principles underlying the determination of the level of national income and employment, and the techniques and institutions which have been devised in the United States for promoting growth in output with minimum instability in prices and employment.

102b. *Introduction to Economics*: Mr. Baratz, Mr. Du Boff, Mr. Hubbard.

Study of the principles underlying the determination of individual prices and incomes, the issues that arise in international economic affairs, and the problems that face poor countries.

201a. *American Economic Development*: Mr. Du Boff.

Long-term trends in output, resources, technology; structure of consumption, production, distribution; foreign trade and finance; and shorter term variations in business activity and capital investment. Quantitative findings provide the points of departure. Prerequisite: Economics 101a, 102b.

202b. *Non-Western Economic Development*: Mr. Baratz.

An introduction to the institutional settings and economic patterns that account for underdevelopment in poor countries, and a review of efforts to overcome barriers to rapid development. Case studies of selected countries in Latin America, Africa or Asia. Prerequisite: Economics 101a, 102b.

203a. (Economics 23 Haverford) *Technology, Work and Leisure*: Mr. Teaf.

Study of the social and personal problems arising out of rapid technological change and its effect on the labor force.

Responses of unions, employers, and public authorities. Arrangements for minimizing insecurity and conflict. Prerequisite: Economics 101a, 102b or two courses in Sociology.

204b. (Economics 24 Haverford) *The Modern Corporation*: Mr. Teaf.

An analysis of the institutional fundamentals underlying corporate decision-making, and a review of ethical issues surrounding corporate performance in contemporary society. Prerequisite: Economics 101a, 102b.

205a. *Private Enterprise and Public Policy*: Mr. Baratz.

A theoretical and empirical analysis of the structure of industrial markets and the behavior of business firms in a competitive economy; legal restrictions on business policy; social and political implications of public regulation of private enterprises. Prerequisite: Economics 101a, 102b.

206b. (Economics 26 Haverford) *International Economic Theory and Policy*: Mr. Bell.

The theory and practice of international trade. The balance of payments, and the theory of disturbances and adjustment in the international economy. Economic integration. Relationships between the rich and the poor countries of the world, and the impact of growth and development on the world economy. Prerequisite: Economics 101a, 102b.

207a. *Money and Banking*: Mr. Hubbard.

The development and present organization of the money and banking system of the United States; domestic and international problems of monetary theory and policy. Prerequisite: Economics 101a, 102b.

208b. *Public Finance and Fiscal Policy*: Mr. Hubbard.

A study of taxation and expenditures with particular emphasis on the Federal budget; fiscal policy as a positive means of shaping public taxation and expenditure so as to contribute to a stable full-employment economy. Prerequisite: Economics 101a, 102b.

210b. (Economics 32 Haverford) *The Soviet System*: Mr. Hunter.

An analysis of the structure and functioning of major Soviet economic, political and social institutions. Current arrangements are studied as products of historical development. Present per-

formance and prospects are evaluated. Prerequisite: Two semester courses in Economics, Political Science, or History.

See Interdepartmental Course 210b, page 128.

211a. *Latin American Economies and Politics*: Mr. Baratz, Mrs. Marshall.

Analysis of certain fundamental economic and political problems in Latin America. Open to students who have had at least one year of Political Science (for prerequisites, see page 112) or Economics. Preference given to those with a reading knowledge of Spanish or Portuguese.

See Interdepartmental course 305a, page 129.

212b. *Comparative Economic Systems*: Mr. Du Boff.

An analysis of capitalist, socialist, mixed and communist economic organizations. Theoretical aspects (including free market, Marxist-Leninist, and democratic socialist principles) and contemporary national cases are studied. Prerequisite: Economics 101a, 102b. Offered in alternate years.

213a. (Economics 41 Haverford) *Business and National Accounting*: Mr. Teaf.

A study of the fundamentals of corporate accounting and their extension to the national accounts. Emphasis is placed on the derivation of the major reports of businesses and of the national economy. Prerequisite: Economics 101a, 102b.

[214b. *Theories and Problems of Change*: Mr. Hubbard.]

An analysis of the Industrial Revolution with particular reference to the pattern of dynamic growth and the Classical, Marxian, Neoclassical and Modern Theories. Prerequisite: Economics 101a, 102b. Offered in alternate years.

216b. *Western European Economic Development*: Mr. DuBoff.

Selected topics in the economic history of Britain, France, Germany and Italy since 1760 are examined, both theoretically and empirically. Representative topics will include economic growth, the "industrial revolution" and technological change, demographic trends, international trade and finance, the impact of the world wars, and the effects of national economic policies. Prerequisite: Economics 101a, 102b.

301a. *Statistical Methods in Economics*: Mr. Treyz.

An introduction to the concepts and procedures that underlie quantitative analysis of economic and other social data. Fre-

quency distributions, probability and sampling, time series, index numbers, regression analysis, computer programming. Prerequisite: Economics 101a, 102b.

302b. *Introduction to Econometrics*: Mr. Treyz.

Quantitative methods for economic analysis and forecasting. Students may choose to emphasize either theoretical or empirical work. Each student will do a project using multiple regression. Prerequisite: Economics 301a or permission of instructor.

303a. (Economics 45 Haverford) *Macroeconomic Analysis*: Mr. Bell.

Rigorous review of the theoretical foundations of income determination, monetary phenomena, and economic fluctuations. Introduction to dynamic processes. Prerequisite: Economics 101a, 102b.

304b. (Economics 46 Haverford) *Microeconomic Analysis*: Mr. Bell.

Systematic investigation of analytic relationships underlying consumer welfare, efficient resource allocation, and ideal pricing. Introduction to operations research. Prerequisite: Economics 101a, 102b.

305a. (Economics 47 Haverford) *Development Analysis*: Mr. Hunter.

Theoretical treatment of the structural changes associated with the process of economic development, especially in poor countries, and rigorous analysis of criteria for policy judgments in development programming. Introduction to input-output and linear programming methods. Prerequisite: Economics 101a, 102b.

306a. (Economics 61 Haverford) *Empirical Seminar*: Mr. Hunter.

Current problems, selected in accordance with student interests, are investigated with the aid of economic theory and quantitative methods. Research paper required. Prerequisite: Economics 301a, 302b.

FINAL EXAMINATION: The Final Examination for students majoring in Economics consists of:

1. An examination in general economic principles and problems;
2. An examination in economic theory; and

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3. An examination in one of the following:
 - a. Monetary-Fiscal Theory and Policy
 - b. Private Enterprise and Public Policy, including Corporations
 - c. International Economics
 - d. Comparative Economic Systems, including the Soviet System
 - e. Labor Economics
 - f. Economic History, American or Western European
 - g. Economics of Development
 - h. Quantitative Methods in Economics

With the permission of major and allied departments, one examination may deal with an allied subject.

Non-majors will be permitted to take a Final Examination in Economics if the Department of Economics judges their prior work in the discipline adequate.

HONORS WORK: One unit of Honors work may be taken by students recommended by the Department.

Education

PRESIDENT

OF THE COLLEGE: KATHARINE ELIZABETH McBRIDE, PH.D.

PROFESSOR AND DIRECTOR,

CHILD STUDY INSTITUTE: RACHEL DUNAWAY COX, PH.D.,
Chairman

ASSOCIATE PROFESSOR AND

DIRECTOR, THORNE SCHOOL: SUSAN E. MAXFIELD, M.S.

ASSISTANT PROFESSOR: ETHEL W. MAW, PH.D.

LECTURERS: FAYE P. SOFFEN, M.S.W.

EMMY A. PEPITONE, PH.D.

ASSISTANT: LELIA BRODERSEN, M.A.

The work in Education is designed for students preparing for teaching or for work with children in a variety of fields. The curriculum treats the nature and development of the child, the psychology of teaching and learning, and principles of measure-

ment. It deals with the history, philosophy and objectives of the school as a social institution.

Although there is no major in Education, a sequence of courses in the Department enables the student to prepare for teaching. Students expecting to teach are urged to confer with the Department during the freshman year. With careful planning at that time, work leading to the certificate to teach in the secondary school in most states can be taken concurrently with a liberal arts major.

The certificate to teach in the elementary school requires some substitutions in the list above plus additional requirements which differ from state to state. The basic work offered by this Department must be supplemented by courses taken elsewhere.

The Phebe Anna Thorne School is maintained by the Department of Education as a laboratory for child study where undergraduates have experience with young children. The pre-school program, in which advanced students assist, provides training for those planning to teach.

The Department also operates the Child Study Institute. This is a mental health service supported by the College, by the Lower Merion Township Schools and by a grant-in-aid from the Commonwealth of Pennsylvania. Problems of learning and behavior are studied; psychological testing, psychiatric treatment, remedial teaching and a program of counseling for children and parents are carried on. Advanced students participate in the work, and undergraduate and graduate students observe in the schools.

101b. *The Social Foundations of Education*: Miss McBride.

The organization and objectives of the school and principles of child development, of learning and of guidance which should be taken into account if these objectives are to be achieved.

[102b. *History and Philosophy of Education*: Mrs. Pepitone.]

A study of the interrelation of education and culture from earliest times to the present day with particular consideration given to current educational issues as they are rooted in the historical process.

201a. *Educational Psychology*: Mrs. Maw.

Psychology and measurement related to educational objectives, particularly from the point of view of what is currently known about human social, affective, cognitive and learning behavior. Laboratory work is required.

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[206a. *Child Psychology*: Mrs. Cox.]

The development of the child from infancy to maturity. Physical, intellectual and emotional growth and learning in the family and the school. Two hours laboratory per week in the Thorne School. Prerequisite: Psychology 101a.

301a. *Principles of Teaching in the Secondary School*: Mrs. Maw.

The objectives, curriculum and organization of the secondary school. The nature of the learner and his relation to the school program and aims. Two-hour seminar per week; 12 hours teaching in the junior or senior high school.

302a. *Principles of Teaching in the Elementary School*: Mrs. Maw.

The objectives and curriculum of the elementary school. The nature of the learner and the learning process during the early school years. Two-hour seminar per week; 12 hours practice-teaching in the elementary school.

[Students electing Education 301a or 302a should note that student-teaching requires returning to the Bryn Mawr area early in September. Registered students may come into residence on the last day of Freshman Week but must make their own plans for living arrangements.]

CERTIFICATE TO TEACH

Requirements for the state certificate to teach in the public secondary school can be met by the appropriate selection of courses in this Department and in the major field or fields. Though each state has its own requirements, most follow the same pattern, namely the Bachelor of Arts degree with emphasis upon a content area offered in the secondary school plus eighteen semester hours of professional preparation for teaching. At Bryn Mawr the suggested sequence includes Psychology 101 followed by the Social Foundations of Education and Educational Psychology. The student then takes either History and Philosophy of Education or Child Psychology, depending upon her interest and prior training. Required of all is Principles of Teaching in the Secondary School which includes as its laboratory, twelve hours a week of supervised student teaching in the public school.

SELECTED GRADUATE SEMINARS

For certain undergraduates who have taken Child Psychology the following graduate seminars are open upon the consent of the instructor.

Problems of Child Development: Mrs. Cox.

The Psychology of Exceptional Children: Mrs. Soffen.

English

PROFESSORS: MARY KATHARINE WOODWORTH, PH.D., *Chairman*
ISABEL GAMBLE MACCAFFREY, PH.D.
K. LAURENCE STAPLETON, A.B.¹

ASSOCIATE PROFESSORS: ROBERT B. BURLIN, PH.D.
ROBERT HAWES BUTMAN, M.A.

ASSISTANT PROFESSORS: PETER J. LEACH, M.F.A.
CATHERINE RODGERS MYERS, PH.D.²
ROBERT L. PATTEN, PH.D.

VISITING LECTURERS: THOMAS BLACKBURN, PH.D.
THOMAS PATRICK ROCHE, JR., PH.D.

LECTURERS: SANDRA M. BERWIND, M.A.
ROGER M. CUMMINS, M.A.
GWENN DAVIS, PH.D.
JOAN L. KLEIN, PH.D.
K. SCOTT MORGAN, PH.D.

INSTRUCTORS: RAMONA T. LIVINGSTON, A.B.
KATRIN NORTON, M.A.
VIRGINIA B. PENNYPACKER, M.A.

To the student planning to major in English the Department offers courses covering all periods of English literature. The student selects her fields within this broad range and devotes special attention to one period or literary genre.

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2. On leave, 1967-8.

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REQUIREMENTS IN THE MAJOR SUBJECT: Students majoring in English must take English 101 or 102 unless they have the recommendation of the Department to enter a second-year course. They must complete four second-year and advanced courses in English literature, of which at least one should be an advanced course. The choice of units for the major should represent several different periods. Students who offer a field in the Middle Ages must take some courses in later periods, and those specializing in modern literature must take English 201 or 300 or 301, or, in exceptional cases, certain other courses approved by the Department. Credit will not be given for a single semester's work in full-year courses unless the Dean of the College recommends, and the Department approves, that an exception be made.

ALLIED SUBJECTS: The student is advised to build a strong ally in classical or modern literature, History, Philosophy or History of Art. With the permission of the Department, certain courses in Music, History of Religion, Political Science, Sociology and Linguistics may also be counted. Any second-year or advanced writing course may be substituted for one unit of allied work.

WRITING, LANGUAGE, AND SPEECH

15. *English Composition and Reading:* Mrs. Berwind, Mr. Burlin, Mr. Cummins, Miss Davis, Mrs. Klein, Mr. Leach, Mrs. Livingston, Mr. Morgan, Mrs. Norton, Mr. Patten, Mrs. Pennypacker.

Practice in writing based upon the study of selected authors, with emphasis upon ideas and the problems of the writer in his time. The student will read fiction, poetry, and critical and argumentative prose in one of the following fields: (a) Literature of the twentieth century; (b) American Literature, 1840 to the present; (c) English Literature of the Renaissance; (d) Themes and Forms in Literature. There will be weekly papers and discussions, and regular conferences.

Note: In the three following courses, 209, 215a and 306, weekly papers are usually required. Students who cannot meet this requirement should not elect any of these courses.

- 209.* *Experimental Writing:* Mr. Leach.

Practice in various forms of writing, fiction and non-fiction. Attention is paid to the needs and interests of each student. Prerequisite: English 15 at Bryn Mawr or the written permission of the instructor.

210a.* *Playwriting and Production*: Mr. Butman.

Writing of two original one-act plays.

210b.* *Advanced Playwriting and Production*: Mr. Butman.

Writing of a full-length play and preparation of its production-book. Prerequisite: approval of the instructor.

[211.* *Verse Composition*: Miss Stapleton.]

Original verse composition, with a study of the principles of form.

[215a.* *Prose Writing*: Mr. Leach.]

Practice in various forms, excluding fiction and with emphasis on exposition and description. Prerequisite: English 15 at Bryn Mawr or the permission of the instructor.

306* & 306c.* *Advanced Writing*: Mr. Leach.

Practice in various forms of writing with the emphasis on technical problems. Prerequisite: English 209.

LITERATURE

101. *Introduction to English Literature*: Miss Davis.

A critical study of major works and representative writers, with emphasis upon the historical context and the growth of literary tradition.

102a & b. *Readings in English Literature*: Mrs. MacCaffrey.

Readings are chosen to illustrate particularly the development of genres and the themes related to them. A different, unified group of works will be used each semester.

201. *Chaucer*: Mr. Burlin.

The emphasis is upon Chaucer and his contemporaries. Sufficient instruction is given in Middle English to enable the student to read ordinary texts.

202. *Shakespeare*: Mr. Morgan.

During the year all the plays are read, and several are studied in detail.

[203. *The Romantic Period*.]

English Literature from 1789 to 1832. Attention is centered upon the poets.

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204. *The Victorian Period*: Mr. Patten.

Major poets and novelists, the prose of Carlyle, Mill, Ruskin and others. Some attention is given to the drama.

[205. *Representative English Novelists*.]

The development of English fiction with emphasis on the novel as a literary form.

[206b. *Restoration Drama and the Age of Dryden*: Mrs. Klein.]

Heroic drama, the comedy of manners, sentimental comedy; Dryden's poetry and criticism; readings in social, religious, and philosophic writings of the Restoration.

207. *English and American Literature of the Last Half-Century*: Miss Woodworth.

The modern movement, its experiments and tendencies, with concentrated study of major writers, Yeats, Joyce, Eliot and others.

208. *American Literature*: Mr. Cummins.

Main themes and formal traditions from the colonial period to the present, with intensive study of major authors.

[212b. *Blake*: Miss Woodworth.]

A study of the poetry, prose, paintings and engravings of Blake, with emphasis on intellectual history and the development of art in the period.

214a. *Philosophical Themes in Poetry*: Mrs. MacCaffrey.

About a dozen poems of middle length by different authors will be studied intensively, with copious supplementary reading in the poets and their background.

215b. *Modern Drama*: Mrs. Klein.

Shaw and his contemporaries; Irish playwrights, including Synge, O'Casey, and Yeats; more recent playwrights such as Eliot, Fry, and Pinter.

300. *Old English Literature*: Mr. Burlin.

After a brief introduction to the language and some reading of prose, the first term will be devoted to short lyrics and questions of Old English poetic style; the second term, to a careful study of the text and critical problems of *Beowulf*.

[301. *Narrative, Plays and Lyrics of the Later Middle Ages.*]

Readings in Middle English texts (exclusive of Chaucer) with emphasis on the lyric, the romance, the mystery play and certain contemporaries of Chaucer such as Langland. Attention will also be given to the works of Malory.

302. *The Sixteenth Century*: Mrs. MacCaffrey.

Emphasis will be placed on the poetry, beginning with Wyatt, and with special attention to Spenser and the non-dramatic poetry of Shakespeare. There will also be reading in the prose writing and the background of the period.

303a. *Elizabethan and Jacobean Drama*: Mr. Morgan.

A rapid survey of earlier periods is followed by closer study of Elizabethan and Jacobean drama, excluding Shakespeare.

304. *The Seventeenth Century*: Miss Stapleton.

Among the writers studied are Bacon; Donne and the Metaphysical poets; Ben Jonson and his school; Sir Thomas Browne. About half of the time is devoted to Milton, and special attention is given to the thought of the period.

[305. *The Eighteenth Century*: Miss Woodworth.]

The age of Pope and Swift; the rise of the novel; Dr. Johnson and his circle.

[309a. *Medieval Narrative: From Beowulf to Malory*: Mr. Burlin.]

A study of the heroic traditions in medieval epic and romance. Continental and Old English works will be read in translation. A reading knowledge of classical epics will be expected.

FINAL EXAMINATION: The Final Examination is in three parts:

1. Literary criticism, literary genres, and problems of style based upon the reading of certain critical works of fundamental importance. Each student is expected to draw illustrative material from the fields in which she has elected to work.
2. An examination in one of the following periods. The student must choose a period other than that which embraces her special field.

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- a. The Middle Ages (to 1500)
 - b. Later Middle Ages and Early Renaissance (1370-1600)
 - c. The Renaissance (1500-1660)
 - d. Neo-Classicism and Romanticism (1660-1832)
 - e. The Nineteenth and Twentieth Centuries (English or English and American)
3. An examination in one of the following fields of concentration: Old English; Middle English; The Drama to 1642; Elizabethan Literature, non-dramatic; The Seventeenth Century; The Eighteenth Century; Romanticism; Victorian Literature; The Novel; The Drama from 1660 to the Present Time; English and American Literature, 1890-1939; American Literature.

With the consent of the Department an examination in an allied subject may be substituted for the examination in the special field.

HONORS WORK: In the senior year Honors work, consisting of independent reading, reports and conferences, is offered to students of marked ability. Honors papers are due on May 3.

French

PROFESSORS: MICHEL GUGGENHEIM, PH.D., *Chairman*
MARIO MAURIN, PH.D.

ASSISTANT PROFESSORS: ELLEN S. GINSBERG, PH.D.
M. PAULINE JONES, PH.D.¹
CATHERINE LAFARGE, PH.D.

INSTRUCTORS: PATRICIA A. KENDALL, M.A.
MARGARET S. MAURIN, A.B.
JOAN H. STEVENS, A.B.

The major in French includes work in both literature and language. In the first year students are introduced to the study of French literature, and special attention is given to the speak-

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ing and writing of French. Two second-year courses treat French literature from the beginning to the present day. In these courses, students whose command of written French is inadequate will be required to attend regularly sessions devoted to special training in writing French. A third second-year course is devoted to advanced language training with practice in spoken as well as in written French.

Advanced courses offer detailed study of individual authors, genres and movements. Students in all courses are encouraged to make use of the tapes available in the Language Laboratory. In French 1, 2, and 203c, the use of the Laboratory forms an integral part of the course. French majors find it valuable to supplement the work done at Bryn Mawr by study abroad either during the Junior Year or during the summer at the *Institut* in Avignon. Residence in French house for at least one year is advisable.

REQUIREMENTS IN THE MAJOR SUBJECT: French 101, 201, 202 and one advanced literature course. Students whose preparation for college has included advanced work in language and literature may, with the consent of the Department, substitute a more advanced course for French 101. Occasionally, students may be admitted to seminars in the Graduate School. Such arrangements are made at the suggestion of the Department.

ALLIED SUBJECTS: Any other language or literature, European History, History of Art, Music, Philosophy.

1. *Elementary French*: Miss Lafarge, Mrs. Ginsberg.

The speaking and understanding of French are emphasized, particularly during the first semester. The course meets five times a week.

2. *Intermediate French*: Members of the Department.

The emphasis on speaking and understanding French is continued, texts from French literature are read, and short papers are written in French.

101. *Readings in French Literature with Practical Exercises in the French Language*: Members of the Department.

The works read are chosen from various periods and genres, and include drama, poetry, novels and short stories. Oral expression and practice in writing are emphasized.

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201a. *French Literature of the Seventeenth Century*: Mr. Guggenheim.

The course will cover representative authors and literary movements of the century, including works of Corneille, Pascal, Molière, Racine, La Fontaine and La Bruyère. Special attention will be given to the concept of the Baroque, the development of Tragedy and the Age of Classicism.

201b. *French Literature of the Eighteenth Century*: Miss Lafarge.

The course will include texts representative of the Enlightenment and the Preromantic movement, with emphasis upon the development of liberal thought as illustrated in the *Encyclopedie* and the works of Montesquieu, Voltaire, Diderot, and Rousseau.

202a. *French Literature of the Nineteenth Century*: Mr. Guggenheim, Mr. Maurin.

The poetry, drama and prose of Romanticism. A study of representative novelists such as Stendhal, Balzac, and Flaubert. Poetry in the second half of the century: the aesthetics of the Parnasse, Baudelaire, the Symbolist movement.

202b. *French Literature of the Twentieth Century*: Mr. Maurin, Mrs. Maurin.

A study of selected works illustrating the principal literary movements from the turn of the century to the present. Special attention will be given to Gide, Proust, Valéry and Claudel; the surrealist poets and their successors; the renaissance of the theater from Giraudoux to Beckett; the ideological and existentialist novel as represented by Malraux, Sartre, and Camus.

203a. *French Literature of the Middle Ages and the Renaissance*: Mrs. Ginsberg.

Representative works of major authors of the Middle Ages (in modern French versions). Selected readings in the sixteenth century, with emphasis on Rabelais, Montaigne, and the Pléiade.

204c. *Advanced Training in the French Language*: Miss Lafarge, Mr. Maurin.

Intensive practice in writing and speaking the language. Stylistic analysis; compositions, literary translations, oral reports and discussions.

[301. *French Lyric Poetry*: Mrs. Ginsberg, Miss Jones.]

In the first semester special attention is given to the poetry of the sixteenth and early seventeenth centuries, and in the second, to the poetry of the last hundred years.

[302. *French Drama*: Mrs. Ginsberg, Miss Jones.]

A survey of the French theater, from liturgical drama to the "Theater of the Absurd." Special attention will be given to the drama of the seventeenth and twentieth centuries.

303. *The French Novel from 1700 to 1960*: Miss Lafarge, Mr. Guggenheim.

The development of French fiction from the eighteenth century *roman de mœurs* to the *Nouveau Roman*. In the first semester particular attention will be paid to novelists such as Marivaux, Rousseau, Diderot, Laclos, Stendhal, and Balzac. In the second semester works by such major novelists as Flaubert, Zola, Proust, and Gide will be discussed.

304. *French Essayists and Moralists*: Mr. Guggenheim, Mr. Maurin.

Man and his world as interpreted by such writers as Montaigne, Pascal, Diderot, Gide, Camus, and Sartre.

305a. *Claudél and Valéry*: Mr. Maurin.

305b. *Voltaire and Rousseau*: Mrs. Ginsberg.

JUNIOR YEAR ABROAD: Students majoring in French may, by a joint recommendation of the Dean of the College and the Department of French, be allowed to spend their junior year in Paris under one of the junior year plans, organized by Sweet Briar College or Smith College.

SUMMER STUDY: Students wishing to enroll in a summer program may apply for admission to the *Institut d'Études Françaises d'Avignon*, held under the auspices of Bryn Mawr. The *Institut* is designed for selected men and women undergraduate and graduate students with a serious interest in French culture, most particularly for those who anticipate professional careers requiring a knowledge of the language and civilization of France. The curriculum includes general and advanced courses in French language, literature, history and art. The program is open to students of high academic achievement who have completed a course in French at the third-year college level, or the equivalent.

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FINAL EXAMINATION: The Final Examination is in three parts:

1. An oral examination to test the student's command of the French language.
2. A three-hour written examination on a period of French literature.
3. A three-hour written examination on the development of a literary genre through French literature.

An examination in an allied subject may be substituted for one of the two written examinations.

HONORS WORK: On the recommendation of the Department, students in their senior year will be admitted to Honors work consisting of independent reading, conferences and a long paper.

Geology

PROFESSORS: EDWARD H. WATSON, PH.D., *Chairman*
LINCOLN DRYDEN, PH.D.

ASSISTANT PROFESSORS: MARIA LUISA B. CRAWFORD, PH.D.
WILLIAM A. CRAWFORD, PH.D.
J. DUNCAN KEPPIE, PH.D.

ASSISTANTS: THORA JOHANNSON, A.B.
MERCEDES CATHERINE REILLY, A.B.

The Department seeks to make students more aware of the physical world around them. The subject includes a study of the nature of the materials of which the earth is made, of the physical processes which have formed the earth and especially the earth's surface, of the history of the earth and its organisms, and of the various techniques necessary to investigate earth processes and history. Geology borrows widely from its sister sciences, combining many disciplines into an attack on the problem of the earth itself. An essential part of any geologic training lies outside the classroom, in field work.

REQUIREMENTS IN THE MAJOR SUBJECT: Geology 101, 201, 202, one advanced course. In addition, at least one of the following

first-year courses is normally required: Biology, Chemistry, or Physics. The sixth unit may be chosen in Geology or in an allied field approved by the Department.

ALLIED SUBJECTS: Biology, Chemistry, Physics, Mathematics. Anthropology, Archaeology, Economics or Statistics may be accepted in special cases.

101a. *Physical Geology:* Mr. Watson and Members of the Department.

A study of earth materials; earth structure; surface processes such as the atmosphere, weathering, stream action, oceans, glaciers, earthquakes and volcanoes; and of the features to which they give rise. Three lectures, four hours of laboratory or field work a week.

101b. *Historical Geology:* Mr. Dryden and Members of the Department.

The history of the earth from its beginning, and the evolution of the living forms which have populated it. Three lectures, four hours of laboratory or field work a week. A three-day field trip is taken in the spring.

201. *Crystallography and Mineralogy:* Mr. Watson.

Crystallography, elementary crystal optics, descriptive and determinative mineralogy, and elementary petrology and economic geology. Three lectures, six hours of laboratory a week.

202. *Paleontology:* Mr. Dryden.

A systematic survey of animal groups in geologic time; in addition, a study of the environment of fossil life, and theories of evolution. Three lectures and three hours of laboratory a week.

301. *Structural and Field Geology:* Mr. Keppie.

The origin and analysis of the structures of igneous, sedimentary and metamorphic rocks, and geological surveying. Three lectures, six hours of laboratory or field work a week.

302. *Stratigraphy:* Mr. Dryden.

The origin and formation of sedimentary rocks; geologic history of typical regions of the United States; elements of petroleum geology; and study of the Ice Age.

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FINAL EXAMINATION: This is in three parts:

1. An examination in General Geology.
2. An examination in some special field in Geology.
3. One of the following:
 - a. An additional special examination in Geology
 - b. A general examination in an allied field
 - c. A written report on a piece of individual work

HONORS WORK: Honors work in any of the advanced fields is offered to any student who has completed the first two years in Geology with distinction.

Certain graduate courses are open to properly trained undergraduates.

German

PROFESSOR: CHRISTOPH E. SCHWEITZER, PH.D., *Chairman*

ASSISTANT PROFESSOR: NANCY C. DORIAN, PH.D.¹

VISITING LECTURER: HANS BÄNZIGER, PH.D.

INSTRUCTORS: KATHERINE L. HOLLI, M.A.

DANUTA S. LLOYD, M.A.

The purpose of the major in German is to lay the foundation for an understanding and appreciation of German literature and civilization. To this end comprehension of the German language, of both the spoken and the printed word, is indispensable; all courses above German 1 are therefore given in German and progressive linguistic training is provided. Students in all courses are encouraged to make use of the tapes available in the Language Laboratory. In German 1 and 201c the use of the Laboratory forms an integral part of the course. This work should be supplemented, whenever possible, by living in the German House, or by spending a summer in one of the summer schools of Germany, Austria or Switzerland; and/or by spending the junior year in Germany.

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REQUIREMENTS IN THE MAJOR SUBJECT: The normal course sequence for the major is German 101, 201c, 202, 300a, and at least one other advanced course. Special consideration is given to students who have supplemented their linguistic training as outlined above.

ALLIED SUBJECTS: Any language or literature, History, Political Science, Philosophy, Music, History of Art.

1. *Elementary German* (Speaking and Reading): Members of the Department.

The course, meeting five times a week, offers the foundation of the language with emphasis on the aural-oral method. Increased importance is given to reading as the course progresses.

101. *Readings in German Literature*: Miss Holli, Mrs. Lloyd.

Continued practice in speaking and writing. Reading and discussion of selected works of German literature, including poetry, novellae, and drama. Emphasis will be on nineteenth and twentieth century authors.

201c. *Advanced Training in the German Language*: Mrs. Lloyd.

Advanced training in speaking and writing; discussion of topics; compositions; reports.

202a & b. *The Age of Goethe*: Mr. Schweitzer.

German literary movements in the period 1750-1830, with emphasis on the works of Lessing, Goethe, Schiller, and the Romantics.

300a. *German Literature from the Beginnings to the Baroque*: Mr. Schweitzer.

An intensive survey of the literature of the Middle Ages, Humanism and the Reformation, and representative works of the seventeenth century. The older works will be read in modern German translations.

[301b. *Introduction to Germanic Philology*: Miss Dorian.]

History of the language situation in the German-speaking world from the earliest records until the present day.

[302b. *German Language and Literature of the Middle Ages*: Miss Holli.]

Introduction to the German language and culture of the Middle Ages. Reading of representative works such as *Der arme*

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Heinrich, Tristan and selections from *Minnesang*. Works will be read in the original language.

[303. *The Classics of the Nineteenth Century*: Miss Holli.]

A survey of German literary developments from the death of Goethe to Nietzsche and Hauptmann, with special emphasis on the great dramatists and lyric poets.

[304a. *Modern German Literature*: Mr. Bänziger.]

The course will concentrate on recent developments of the short story and modern parable.

305a & b. *The German "Novelle" and Novel*: Mr. Bänziger.

Discussion of the evolution of the "Novelle," and close analysis of representative works. In the second semester important German novels from Goethe to Kafka and Frisch will be studied.

[306. *The German Drama*: Mr. Schweitzer.]

Study of various dramatic forms. Emphasis on parallel European and modern developments.

[307b. *German Poetry*: Miss Holli.]

Study of the work of major poets from a number of literary periods. Various critical approaches will be discussed and used.

Courses at Haverford

German 37. *Lyric Poetry*: Mr. Jayne.

German 43. *Advanced Topics: Thomas Mann*: Mr. Cary.

German 38. *German Drama*: Mr. Cary.

German 44. *Advanced Topics: Kleist and Kafka*: Mr. Cary.

FINAL EXAMINATION: The Final Examination is in three parts:

1. An oral examination on selected masterpieces of German literature.
2. An examination on the history of a literary form, or on the history of the German language, or on an allied subject.
3. An examination on a period of German literature, or on an allied subject, if none has been offered under 2.

HONORS WORK: On recommendation of the Department, students in the senior year will be admitted to Honors work consisting of independent reading, conferences and a substantial paper.

Greek

PROFESSORS: RICHMOND LATTIMORE, PH.D., LITT.D.

MABEL LOUISE LANG, PH.D., *Chairman*

INSTRUCTOR: GREGORY W. DICKERSON, M.A.

The courses in language and literature are designed to acquaint the students with the various aspects of ancient Greek culture through a mastery of the Greek language and a comprehension of Greek mythology, religion and the other basic forms of expression through which that culture developed. The works of poets, philosophers and historians are studied both in their historical context and in relation to subsequent Western thought.

REQUIREMENTS IN THE MAJOR SUBJECT: Greek 1, 101, 102 (half-unit), 201 and 301.

ALLIED SUBJECTS: Ancient History, Classical Archaeology, History of Art, any language, Philosophy.

1. *Elementary Greek*: Miss Lang.

Elements of grammar with prose composition and selected reading from ancient authors and the *New Testament* in the first semester; in the second semester, the *Apology* and *Crito* of Plato.

101. *Herodotus and Tragedy*: Miss Lang, Mr. Lattimore.

Prose composition is required.

102b. *Homer*: Mr. Lattimore.

201. *Plato, Thucydides and Tragedy*: Mr. Dickerson.

Prose composition is required.

301. *Hesiod, Lyric Poetry and Comedy*: Mr. Lattimore, Mr. Dickerson.

203.* *Greek Literature in Translation*: Miss Lang, Mr. Lattimore.

The epic, lyric and dramatic poetry as well as the early prose works are examined and interpreted as expressions of Greek culture.

FINAL EXAMINATION: The Final Examination for students majoring in Greek consists of:

1. Sight Translation of Greek to English.
2. Two examinations from the following fields: Homer, Attic Tragedy, Lyric Poetry and Aristophanes, Fifth-Century Historians, Fourth-Century Attic Prose. A student may substitute for one of these, an examination in one of the Allied Subjects.

HONORS WORK: Honors may be taken either in conjunction with the advanced course or after its completion.

History

PROFESSORS: CAROLINE ROBBINS, PH.D., *Chairman*

ELIZABETH READ FOSTER, PH.D.,

Dean of the Graduate School

ARTHUR P. DUDDEN, PH.D.

ASSISTANT PROFESSORS: CHARLES M. BRAND, PH.D.

MARY MAPLES DUNN, PH.D.

BARBARA M. LANE, PH.D.¹

ALAIN SILVERA, PH.D.

LECTURER: JOSEPH AIRO-FARULLA, M.A.

ASSISTANT: PHYLLIS HABERERN, M.A.

ASSISTANT PROFESSOR OF LATIN: RUSSELL T. SCOTT, PH.D.

INSTRUCTOR IN GREEK AND LATIN: GREGORY W. DICKERSON, M.A.

The History major is designed to enable the student to acquire a sense of historical perspective and an insight into historical method. Courses stress the development of ideas, cultures, and institutions—political, social, and economic—rather than the ac-

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cumulation of data about particular events. The students are required to study some topics and periods intensively in order to learn the use of documentary material and the evaluation of sources. Extensive reading is assigned in all courses to familiarize majors with varied kinds of historical writing and, in most year courses, critical or narrative essays are required.

REQUIREMENTS IN THE MAJOR SUBJECT: Students are usually expected to complete four units of history and two units of allied work, the selection of courses, planned in the spring of the sophomore year, depending upon the choice of the general fields of concentration and the special interest of the student. Two general fields, and one more concentrated, are elected from the list given below under Final Examination. Students must also elect work outside the fields of concentration.

ALLIED WORK: A wide choice is open to majors in History; in general those in modern fields will find courses in the Social Sciences most suitable, while those in earlier periods may select, with the permission of the departments concerned, courses in Classical Studies, in Philosophy and Art. Intermediate or advanced courses in Literature and in Language may also serve to enrich the major offering.

[201. *History of England to 1960*: Miss Robbins.]

The treatment is topical, although a general chronology is maintained. Prehistoric, Roman, Saxon, Norman and later English society, constitutional, economic and intellectual development are among the subjects studied. Ireland, Scotland and Wales receive special attention.

202. *The Development of the United States of America*: Mr. Dudden.

A study of American national life in the nineteenth and twentieth centuries, with emphasis upon the transformations altering the original Republic.

[203. *Medieval Civilization*: Mr. Brand.]

Western European development from the fall of Rome to about 1350. Economic, institutional and intellectual developments in the major kingdoms of the West and the history of the Latin Church will be included. Given in alternate years.

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204. *Europe 1787-1848*: Mr. Silvera.

About one half of the first semester is devoted to the French Revolution; the second half to the spread of revolutionary ideas and the idea of nationalism throughout Western Europe during the Napoleonic period, concluding with the Vienna settlement and the Congress system. Semester II surveys European developments, with particular emphasis on political and social history from the age of Metternich. Topics considered include the effects of the Industrial Revolution, the growth of nationalism, varieties of socialism, and the Revolutions of 1848.

205. *Ancient History*: Semester I, Mr. Dickerson.
Semester II, Mr. Scott.

The first semester is devoted to study of the history of the ancient Near East and of Greece to the rise of Macedon; the second to the history of Rome and the Hellenistic world to the reign of Constantine I. The course demands essays, and reading of typical sources for each period.

Students should ordinarily not elect both 205 and 206.

206. *Topics in European History*: The Department.

The course is designed to give a broad view of the development of European civilization from the fall of Rome to the present, as well as a deeper understanding of special problems in European History and interpretation. The general question, "What is history?" is discussed, and a number of selected topics investigated, among them, for example, "Renaissance Florence: The Medici as patrons, politicians, and bankers," and "The Diplomacy of Imperialism: The Congress of Berlin."

207. *Latin America: Colonies and Revolutions*: Mrs. Dunn.

In the first semester the conquest of South America, the transplantation and modification of European institutions, the colonial society, economy, and culture will be studied; in the second semester, the revolutionary movements, and the establishments of new nations.

208. *Byzantine Empire*: Mr. Brand.

Political, institutional, and cultural history of the Byzantine (Later Roman) Empire from the reforms of Diocletian and conversion of Constantine to the capture of Constantinople in 1453. Contacts with Arabic, Turkish, Armenian, Slavic and West European peoples will be stressed.

- [209a. *The Emergence and Decline of States in Europe and Asia in the Seventeenth and Eighteenth Centuries*: Miss Robbins.]

Among topics discussed will be: the decline of Spain, Poland, and the Mogul Empire; the ascendancy of France; the rise of Sweden, Russia, Prussia, the Manchu Dynasty; mercantilism and the commercial revolution; the structure of absolutism, mixed monarchy and federal governments; the development and rivalries of the French, English and Dutch East India Companies; religious controversies and movements, Jesuit, Jansenist, Deist, Mystic.

210. *Topics in the History of the Near East*: Mr. Silvera.

A survey of the European impact on the Ottoman Empire and the Arab world in the nineteenth and twentieth centuries. Among the topics to be studied will be the legacy of Islam, the Imperial policies of Great Britain and France, the rise of Arab nationalism.

225. (Haverford 25-26) *Europe since 1848*: Mrs. Gerstein.

The main political, social, and cultural developments of the European states since mid-nineteenth century: their diplomatic relations and imperial expansion. The first semester will extend to the First World War.

- [301. *Europe in the Twentieth Century*: Mrs. Lane.]

The first semester extends to the First World War and includes the military phases of the war; the second semester deals with the period from the Russian Revolution to the present.

303. *Recent History of the People of the United States*: Mr. Dudden.

Studies of social change and response beginning with the late nineteenth century, together with considerations of scientific and technological innovations and the problems peculiar to the construction of the history of the recent past. Topics will include religion, government, education, economics, and the main currents of thought and artistic expression. With permission, students may elect one semester only.

304. *English History: the Victorians and Edwardians*: Miss Robbins.

Round-table discussion each week of different aspects of activity in the period: parliamentary reform; the Chartists; early labor movements and utopian socialists; the formation of the parliamentary labor party; trade unions; urban reform; welfare legislation; legal changes; ecclesiastical currents of opinion, the Oxford movement, the sects and freethinkers, the Catholic revival; Pugin and the Gothic revival; the Great Exhibition and popular taste, the social artists and the departure from realism; Ireland, the great famine, the Fenians, the rise of Sein Fein; the imperialists; prime ministers and foreign secretaries; the character and role of the monarchs.

305. *Renaissance and Reformation*: Mr. Airo-Farulla.

The course is concerned with European History from the fourteenth to the sixteenth century. The first term deals with the Renaissance, the second with the Reformation. Emphasis will be placed not only on the political and social developments, but also on the intellectual history of the period. Given in alternate years.

- 306a. *The Enlightenment*: Miss Robbins.

The intellectual history of the seventeenth and eighteenth centuries is studied in seminar discussions of selected books illustrating, amongst other things, the scientific revolution, the growth of skepticism, the traveler and the movement of ideas, morality and taste, optimism, the philosophic critics and analysts of government, law and international relations.

- 306b. *Great Historians*: Miss Robbins, Mrs. Dunn.

Each week the work of one or two historians is read and discussed in relation to the historical and scholarly presuppositions of its age. Emphasis is laid on reading and analysis rather than on any attempted survey of historical literature. The course, however, pursues a roughly chronological order starting with the Greeks and ending with Spengler and Toynbee.

- [307a. *The English in America*: Mrs. Dunn.]

An investigation of the founding of the English Colonies in North America and the West Indies, and their development in the seventeenth and early eighteenth centuries.

[307b. *America in the Age of Revolution*: Mrs. Dunn.]

A new study of America after 1713, culminating with the ratification of the constitution, and concentrating on the causes and interpretation of the Revolution.

HAVERFORD HISTORY COURSES

23-24. *Medieval European Civilization*: Mr. MacCaffrey, Mr. Spiegler.

A survey of Western European civilization from the fall of Rome to about 1300, including detailed study of religious thought and institutions as well as major political and economic development. Occasional lectures, extensive reading, papers and discussion, with a final examination. Offered in 1967-8 and alternate years.

25-26. *Europe since 1848*: Mrs. Gerstein.

The main political, social, and cultural developments of the European States since mid-nineteenth century: their diplomatic relations and imperial expansion. The first semester extends to the first World War.

40a. *History and Principles of Quakerism*: Mr. Bronner.

The Quaker Movement is studied in relation to other intellectual and religious movements of its time, and in relation to problems of social reform. The development of the dominant Quaker conception is traced to the present day and critically examined. The course is designed for non-Friends as well as for Friends. Open without prerequisite to sophomores, juniors, and seniors.

42. *Topics in American History*: Mr. Lane.

Class discussion and papers based on readings in the sources and secondary works. May be repeated for credit with change of content. Permission of the instructor is required. Topic for 1967-8: Reinterpretations of U. S. History.

49-50. *European Thought and Letters, 1100-1600*: Mr. Thompson.

History of ideas in the later Middle Ages and Renaissance, with emphasis on the relations between literature and the philosophical and religious development of the epoch. The course begins with consideration of medieval universities. Authors read include Abelard, Aquinas, Dante, Petrarch, Erasmus, More, Mon-

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taigne, Hooker, Bacon, and others. In addition to the reading required of all members of the course, students are given opportunity to follow some relevant topic of special interest to them.

55. *Topics in Modern European History*: Mr. Spielman.

Seminar meetings and an extensive paper based on reading in source materials and secondary works. May be repeated for credit with change of content. Topic for fall 1967-8: Germany since 1870. Prerequisite: a reading knowledge of German, and permission of the instructor.

56. *Topics in Modern European History*: Mrs. Gerstein.

Class discussion and papers based on reading in the sources and secondary works. May be repeated for credit with change of content. Topic for spring 1967-8: The rise of the Russian Intelligentsia, 1830-60.

57. *Topics in British History*: Mr. MacCaffrey.

Class discussion and papers based on reading in the sources and secondary works. May be repeated for credit with change of content. Topic for spring 1967-8: The English Reformation, 1530-60. Prerequisite: (History 11-12) or permission of the instructor.

FINAL EXAMINATION: The Final Examination consists of three parts, two in general fields of study and one in a more specialized area. All students attend regular conferences in the first semester of their senior year to assist their preparation in the general fields selected.

General Fields: Medieval Europe, 378-1300

Europe, 1300-1648

Europe, 1648-1830

Europe, 1830-1950

The Americas, 1492-1825

The Americas, 1825-1950

Special Fields: Medieval, English, American, Russian, Near Eastern.

Each year the Department selects one or more topics from these fields appropriate to the interests of the coming senior class, and arranges conferences for them in semester II.

With the permission of the department concerned, students may elect to write their third examination in an allied field.

HONORS WORK: Students admitted to this work meet the instructor regularly for the discussion of reading in a selected period. An essay based on source material must be presented before May 1. The award of the degree with Honors in History will depend on the character of this honors paper and on the candidate's performance in the final examination.

History of Art

PROFESSOR: CHARLES MITCHELL, M.A., B.LITT., *Chairman*

ASSOCIATE PROFESSOR: JAMES E. SNYDER, M.F.A., PH.D.

ASSISTANT PROFESSORS: CHARLES G. DEMPSEY, M.F.A., PH.D.
ANNE COFFIN HANSON, M.A.C.A., PH.D.¹

ARTIST IN RESIDENCE: FRITZ JANSCHKA, AKAD. MALER

LECTURER: CHARLES DOUGLAS LEWIS, JR., PH.D.

ASSISTANT: MARGARET L. PAUTLER, M.A.

CURATOR OF SLIDES: CAROL W. CARPENTER, A.B.

MARY FLEXNER LECTURER: WOLFGANG STECHOW, D.PHIL.

The Department regularly offers an introductory course (involving some studio work), a series of general intermediate courses and more concentrated advanced half-courses, and instruction on special topics to majors in their senior year. The program is open also to undergraduates of Haverford College.

Further studio work, without academic credit, is available by arrangement with Mr. Janschka. For this there is no tuition fee.

REQUIREMENTS IN THE MAJOR SUBJECT: At least four units of course-work in art-history, normally including Art 101 and always one unit of advanced course-work, together with two units of allied work. Intermediate courses with supplementary work may

1. On leave, 1967-8.

sometimes be counted as advanced at the discretion of the Department.

Students contemplating a major in History of Art are strongly advised to consult the Department as early as possible in their College careers.

ALLIED SUBJECTS: History, Latin, Greek, Modern Languages, Archaeology; others in consultation with the Department.

101. *Introduction to Art History*: Mr. Snyder, Mr. Dempsey, Mr. Lewis, Mr. Janschka.

The course is designed as an introduction to the methods and scope of art history in the field of Western art from medieval to modern times. Studio work, two hours weekly.

201. *Medieval Art*: Mr. Snyder.

Selected topics and works from the fourth to the fourteenth century.

202. *Renaissance Art*: Mr. Mitchell.

European Renaissance art from the fourteenth to the sixteenth century.

203. *Baroque Art*: Mr. Dempsey.

European art from the late sixteenth to the early eighteenth century.

204. *Modern Art*: Mr. Lewis.

European art from the late eighteenth to the twentieth century.

300a. *Texts for Art Historians*: Mr. Mitchell.

A course designed to give advanced students instruction and practice in the reading and interpretation of written documents bearing on the history of art. Participants need an elementary knowledge of Latin and a working knowledge of at least two of the following languages: French, Italian, German.

311b. *Flemish Painting after van Eyck*: Mr. Snyder.

An advanced course requiring a reading knowledge of French and German.

313a. *Baroque Iconography*: Mr. Dempsey.

An advanced course requiring the use of Italian.

314b. *Tiepolo and Delacroix*: Mr. Lewis.

An advanced course requiring a reading knowledge of French. Italian, too, will help.

Comprehensive Conferences. Members of the Department hold regular conferences with Senior Majors on their special subjects.

FINAL EXAMINATION: This is in three parts, each of three hours:

1. An examination to test knowledge of works of art.
2. A general examination on the history of art.
3. An examination on a special topic.

HONORS WORK: Offered to suitable students on invitation of the Department.

History of Religion

VISITING LECTURER: MORTON S. ENSLIN, TH.D., *Chairman*

ASSOCIATE PROFESSOR OF PHILOSOPHY: JEAN A. POTTER, PH.D.

Courses in the History of Religion may be taken as electives or in connection with certain major fields as allied work.

No major is offered in the History of Religion.

103. *Literary History of the Bible*: Mr. Enslin.

The history, literature, and interpretation of the Bible, with special emphasis on analysis of text and literary forms.

201a.* *History of Ancient Israel*: Mr. Enslin.

The origins and development of Hebrew religion against its ancient Near Eastern background until the Christian era.

201b.* *Christian Beginnings*: Mr. Enslin.

A study of the emergence of the Christian movement, with special attention to the mission of Jesus and the foundation of the early church.

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204a. *Philosophy of Religion*: Miss Potter.

The existence and nature of God and the character of religious language.

This course is also listed as Philosophy 204a.

204b. *Medieval Philosophy*: Miss Potter.

The history and development of medieval philosophy from its origins in classical and Patristic thought to the fifteenth century. This course is also listed as Philosophy 204b.

206b. *Apocrypha and Pseudepigrapha*: Mr. Enslin.

A detailed study of the noncanonical Judeo-Christian writings, with special attention to their form and relation to the canonical books of the Old and New Testament.

Italian

LECTURER: ANTONIO C. MASTROBUONO, M.A.

INSTRUCTOR: CARMEN SALVONI, *Lic.F.L.*

The aims of the major are to acquire a knowledge of the Italian language and literature and an understanding of Italian culture and its contribution to Western civilization. Majors in Italian are urged to spend the Junior year in Italy or to study in approved summer schools in Italy or in the United States.

REQUIREMENTS IN THE MAJOR SUBJECT: Italian 1, 101, 201, 202, and one other advanced course. For students who enter College with Italian, proper substitutions will be made.

ALLIED SUBJECTS: Any other language or literature, History, History of Art, Philosophy, Music, Political Science; with departmental approval, any other field allied to the student's special interests. In all courses students are urged to use tapes available in the Language Laboratory.

1. *Italian Language*: Miss Salvoni.

A practical knowledge of the language is acquired through hearing, speaking, writing, and reading, going from concrete situations to the expression of abstract ideas and with a gradual introduction to the reading of Italian literature. The course meets five times a week and is conducted entirely in Italian.

101. *Intermediate Course in the Italian Language:* Miss Salvoni.

Readings from modern Italian authors and topics assigned for composition and discussion, conducted entirely in Italian.

[102c.* *Dante in English Translation.*]

The New Life and Divine Comedy.

[103c.* *Literature of the Italian Renaissance in English Translation.*]

From Petrarch to Tasso; pastoral literature; literary criticism and aesthetic theories of the Renaissance, with special reference to their influence on other literatures.

201. *Classics in Italian Literature:* Mr. Mastrobuono.

Reading and explanation of texts, with a study of literary history; conducted in Italian.

202. *Dante:* Mr. Mastrobuono.

The Vita Nuova and Divina Commedia, with some attention to the minor works. With departmental approval, open to anyone who can read Italian.

[302c. *Advanced Course in the Italian Language.*]

Advanced work in composition.

[303. *Italian Literature of the Rinascimento.*]

304. *Italian Literature of the Romantic Period:* Mr. Mastrobuono.

JUNIOR YEAR ABROAD: Students approved by the Department and the Dean may be recommended for the Junior year in Florence under the auspices of the Smith College Group.

FINAL EXAMINATION: The Final Examination is in three parts:

1. The Italian Language: ability to understand and speak the spoken idiom; ability to write the language.
2. Italian Literature and Literary History.
3. The study of a single genre or topic throughout Italian literature, or an examination on an allied subject.

For the second part, the emphasis may be placed on the Medieval, Renaissance, Romantic or Modern period.

HONORS WORK: After the completion of the second-year course a student may be recommended for Honors in Italian. The student works in a special field adapted to her own interest under the direction of the Department.

Latin

PROFESSOR: AGNES KIRSOPP MICHELS, PH.D., *Chairman*

ASSOCIATE PROFESSOR: MYRA L. UHLFELDER, PH.D.

ASSISTANT PROFESSOR: RUSSELL T. SCOTT, PH.D.

INSTRUCTOR: GREGORY W. DICKERSON, M.A.

The major in Latin is planned to give the students familiarity with the most important works of Latin literature and with the Roman contribution to the post-classical world.

REQUIREMENTS IN THE MAJOR SUBJECT: Latin 101 or 102, 201 and either 301 or 302. 203a is a prerequisite for Honors work, and students who plan to teach are strongly advised to take this course.

ALLIED SUBJECTS: Greek, History, Classical and Near Eastern Archaeology, History of Art, History of Religion, Philosophy, and any modern literature.

1. *Elementary Latin*: Mrs. Michels, Mr. Dickerson.

Basic grammar with composition and selected readings from Latin authors in the first semester. In the second semester selected readings from prose authors and from Vergil's *Aeneid*, with exercises in composition. Students who have had two years of Latin in school may enter the course in the second semester. Those who complete the course satisfactorily will be eligible to take Latin 101 or 102.

101a. *Latin Literature*: Mr. Scott.

A play of Plautus, and selections from the poems of Catullus and the *Eclogues* of Vergil.

101b. Miss Uhlfelder.

Selections from Livy, Book I, and from Horace's *Odes*.

102a. *Readings in Latin Literature*: Mr. Dickerson.

Readings from prose authors, Catullus, and the *Eclogues* of Vergil, with special attention to problems of language, for students who need a review of basic grammar.

102b. Mrs. Michels.

Selections from Livy, Book I, and from Horace's *Odes*.

201a. *Horace and the Elegiac Poets*: Mr. Scott.

Reading from the *Satires* and *Epistles* of Horace, and from Tibullus, Propertius and Ovid, with special attention to the character of Augustan literature.

201b. *Latin Literature of the Silver Age*: Mrs. Michels.

Reading from the works of the chief authors with special attention to the development of literary types during the period.

202. *Medieval Latin Literature*: Miss Uhlfelder.

The reading includes selections from important writers from the late Roman Empire to the thirteenth century. This course may be taken either as a half or as a whole unit. Students who have not taken Latin 101 or 102, but wish to take Latin 202 as an elective or allied course, should consult the instructor.

203a. *Latin Style*: Mrs. Michels.

A study of Latin prose style, based on the reading of prose authors, with exercises in composition, and of Latin metrics with practice in reading aloud.

[301a. *Vergil's Aeneid*: Mrs. Michels.]

[301b. *Tacitus*: Mr. Scott.]

302a. *Lucretius*: Miss Uhlfelder.

302b. *Cicero and Caesar*: Mr. Scott.

SENIOR SEMINAR: In preparation for the Final Examination, seniors will meet regularly with members of the department for discussion of their reading in Latin literature.

FINAL EXAMINATION: The Final Examination consists of three three-hour examinations in the following fields:

1. Latin Sight Translation.
2. Latin Literature.
3. One of the following:
 - a. An allied subject (Greek, if possible)
 - b. A special period of Roman history
 - c. The development of an important Latin literary genre

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- d. Roman rhetoric
- e. A special author
- f. An important genre or theme in Medieval Latin literature

HONORS WORK: Honors work in either classical or medieval Latin or in Roman history is offered to qualified seniors. The subject will be determined by the interests of the student. The work is carried out under the direction of one member of the Department and the results are presented in a paper.

Mathematics

PROFESSOR: JOHN C. OXTOBY, M.A., *Chairman*

ASSOCIATE PROFESSOR: FREDERIC CUNNINGHAM, JR., PH.D.

ASSISTANT PROFESSORS: ETHAN D. BOLKER, PH.D.¹

MARTIN AVERY SNYDER, PH.D.

ASSISTANT: MARY L. WOLFE, M.A.

The major is designed to provide a balanced introduction to the subject, emphasizing its nature both as a deductive and as an applied science, at the same time providing the technical foundation for more advanced study. The courses in calculus are basic for all applications of mathematical analysis and for more advanced work in function theory. The courses in algebra and geometry introduce the student to some of the unifying ideas and postulational methods that are characteristic of much of modern mathematics.

REQUIREMENTS IN THE MAJOR SUBJECT: Mathematics 101, 201, 202C, 301, 303a, and at least one other advanced half course.

ALLIED SUBJECTS: Chemistry, Economics, Philosophy, Physics and Psychology.

1. On leave, 1967-8.

101. *Calculus, with Analytic Geometry*: Mr. Oxtoby, Mr. Cunningham.

Differentiation and integration of algebraic and elementary transcendental functions, with the necessary elements of analytic geometry and trigonometry. The interplay between mathematical ideas and applications is exploited.

201. *Second-Year Calculus*: Mr. Snyder.

The definite and indefinite integral, infinite series, partial derivatives, multiple integrals, differential equations, with applications.

- 202c. *Solid Analytic Geometry and Algebra*: Mr. Cunningham.

Determinants, vectors, matrices, and selected topics from the Theory of Equations; linear algebra motivated by and applied to space geometry; classification and transformation of planes and quadric surfaces.

301. *Advanced Calculus*: Mr. Oxtoby.

The classical theory of real functions, based on Cantor's construction of the real number system; the Riemann integral, functions defined by power series, Fourier series, functions of several variables. Prerequisite: Mathematics 201.

- 303a. *Introduction to Abstract Algebra*: Mr. Cunningham.

Permutations, abstract groups, rings, and fields; uniqueness of factorization. Prerequisite: Mathematics 202c.

- [304b. *Theory of Probability with Applications*.]

Probability in discrete sample spaces, stochastic independence, Laplace Limit Theorem, Poisson distribution, random walk, and recurrent events—with applications to physics and statistics.

- [306b. *Number Theory*: Mr. Bolker.]

Prerequisite: Mathematics 303a.

307. *Numerical Analysis*: Mr. Snyder.

Prerequisite: Mathematics 201.

- [310. *Theory of Functions of a Complex Variable*: Mr. Oxtoby.]

Special functions, conformal mapping, the general theory according to Cauchy, singular points, Laurent series, series of partial fractions, infinite products, elliptic functions. Prerequisite: Mathematics 301.

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[311a. *Differential Equations*: Mr. Oxtoby.]

General methods, existence theorems, linear equations and Wronskians, oscillation and separation theorems, partial differential equations and boundary-value problems. Prerequisite: Mathematics 201.

312b. *Topology*: Mr. Cunningham.

Prerequisite: Mathematics 301 or 303a.

FINAL EXAMINATION: The Final Examination consists of three parts: (a) an examination in analysis, (b) an examination in algebra and geometry, and (c) an examination in some particular branch of advanced analysis or geometry, or in an allied field.

HONORS WORK: Qualified students are admitted to Honors work on recommendation of the Department.

Music

PROFESSOR AND DIRECTOR OF CHORUS: ROBERT L. GOODALE, A.B.,
B.MUS., A.A.G.O.,
Chairman

PROFESSOR AND DIRECTOR

OF ENSEMBLE GROUPS: AGI JAMBOR, M.A.

ASSISTANT PROFESSOR: ISABELLE CAZEAUX, PH.D.

LECTURER: ARTHUR J. KOMAR, M.MUS., M.F.A.

ASSISTANT: MYRL HERMANN, A.B.

DIRECTOR OF ORCHESTRA: WILLIAM H. REESE, PH.D.

The purpose of the Music major is to enable the student to appreciate the significance of music from an historical and sociological as well as from an aesthetic point of view and to develop a technique of intelligent listening, a faculty of critical judgment and the ability to use the materials of music as a means of expression for creative talent.

Students in the courses in History and Appreciation of Music must devote two hours or more a week to listening to recordings.

REQUIREMENTS IN THE MAJOR SUBJECT: Music 101, 102, and at least two and one-half units of additional work, the selection of courses depending upon the student's desire to specialize in the history and literature of music or the technique of composition. A student intending to major in Music must have sufficient knowledge of pianoforte or organ playing to enable her to play music of the technical difficulty of a Bach figured chorale. She is strongly urged to be a member of the Chorus or the Orchestra and/or an Ensemble Group.

ALLIED SUBJECTS: History, History of Art, Modern Languages, English, Greek, Latin, Philosophy, History of Religion.

101. *An Introduction to the History and Appreciation of Music:* Miss Cazeaux, Mme. Jambor, Mr. Goodale.

A comprehensive survey, with special emphasis on the technique of intelligent listening.

102. *Music Materials:* Mr. Goodale.

A course in the elements of theory. The study of harmony and counterpoint, simple formal analysis and an introduction to orchestration.

201. *Romantic Music:* Miss Cazeaux, Mr. Komar.

A concentrated study of selected works of representative composers of the Romantic period and a historical treatment of the music of the age. Prerequisites: Music 101 and 102, or permission of the instructors.

202. *Advanced Theory and Analysis:* Mr. Komar.

A continuation of Music 102, with emphasis on analysis (harmonic, contrapuntal and formal) of larger forms. Prerequisite: Music 102 or its equivalent.

- 203a. *Bach:* Mme. Jambor.

Prerequisite: Music 101 or its equivalent.

- 203b. *The Classical Period:* Mme. Jambor.

Prerequisite: Music 101 or its equivalent.

- 205a. *Musical Criticism:* Miss Cazeaux.

Prerequisite: Music 101.

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301. *Music of the Twentieth Century*: Mr. Goodale, Mr. Komar.

A survey of the music of the period and concentrated analysis of key works. Prerequisites: Music 101, 102, and 202 or their equivalents. Music 202 may be taken concurrently.

[301b. *Opera and Music Drama*: Miss Cazeaux.]

The evolution of opera from its origins to the twentieth century. Prerequisites: Music 101 and 102 or their equivalents.

302a. *Medieval and Early Renaissance Music*: Miss Cazeaux.

The rise of liturgical music in the early Christian Church. The development of polyphony in the tenth century, and the evolution of sacred and secular music up to 1450. Prerequisites: Music 101, 102 or their equivalents. Alternate with Music 301.

302b. *Late Renaissance and Baroque Music*: Miss Cazeaux.

The great periods of vocal counterpoint during the fifteenth and sixteenth centuries. The creation of new forms in the seventeenth century and the development of dramatic and instrumental music up to the time of Bach. Prerequisites: Music 101 and 102 or their equivalents. Alternate with Music 301b.

303b. *Orchestration*: Mr. Goodale.

Prerequisites: Music 101, 102 and 202 or their equivalents. Music 202 may be taken concurrently with this course.

304a. *Interpretation of Keyboard Music, Seventeenth Century to the Present*: Mme. Jambor.

Prerequisites: Music 101 and 102 or their equivalents.

305. *Free Composition*: Mr. Goodale.

This course is designed for those students whose chief interest lies in the field of composition. It may be taken only with the permission of the instructor.

Work in dictation, sight-singing and keyboard will be offered on an extra-curricular basis. Music majors will be expected to take this course. It will also be open to other interested students.

HONORS WORK: Honors work is offered for students recommended by the Department.

FINAL EXAMINATION: The Final Examination consists of three parts with three-hour examinations in each:

1. The History of Music.
2. The Theory of Music.
3. Special field, which may be taken in an allied subject.

The following organizations, carrying no academic credit, are sponsored by the Department:

The College Chorus, a group of about 90 members. The Chorus participates in concerts with choruses from men's colleges and also takes part in college services. Major works for women's chorus and mixed chorus are studied and performed. The Double Octet, selected from members of the Chorus, frequently sings at concerts and occasionally goes on trips as an independent unit.

The Orchestra, organized jointly with Haverford College. It plays concerts of its own, and frequently joins the Chorus in the presentation of major works.

The Ensemble Groups, also organized jointly with Haverford College. Students in these groups are afforded the opportunity of studying chamber-music literature at first hand, as well as the experience of playing in public at student recitals.

Lessons in pianoforte, organ and voice may be taken at the student's expense, with no academic credit. Lessons in other instruments may be arranged locally or in Philadelphia. The Department will be glad to assist in these arrangements.

Philosophy

PROFESSORS: MILTON CHARLES NAHM, B.LITT., PH.D., *Chairman*¹

JOSÉ MARÍA FERRATER MORA, *Lic. F.L.*

GEORGE L. KLINE, PH.D.²

ISABEL SCRIBNER STEARNS, PH.D.

ASSOCIATE PROFESSOR: JEAN A. POTTER, PH.D.

ASSISTANT PROFESSOR: ROBERT K. MEYER, PH.D.

LECTURER: ALISON D. KNOX, M.A., PH.B.

TEACHING RESIDENT: JOYCE TREBILCOT, PH.D.

ASSISTANTS: MARK BLANK, M.A.

W. D. TROUTMAN, M.A.

1. On leave, semester II, 1967-8.

2. On leave, semester I, 1967-8.

The major work is planned to acquaint the student with the historical and systematic interrelations of the significant philosophic concepts in Western thought, as well as to provide training in the techniques proper to the subject.

The courses in Greek Philosophy and Modern Philosophy provide the major students with a common background, training, and language. Further study offers additional historical information, as well as insight into methodology and systematization, with training in the techniques of logic and theory of value. Metaphysics, aesthetics and other advanced studies, besides their intrinsic importance, show the relations of philosophy to art, science, history, mathematics, and religion.

The Department aims to provide training sufficiently broad in scope and technical in procedure to equip the student for analytical, critical and productive speculation.

REQUIREMENTS IN THE MAJOR SUBJECT: Students majoring in Philosophy are required to take the first-year half-course in Greek Philosophy; the second-year half-courses in Modern Philosophy, Ethics, Logic and Kant; one additional second-year half-course from among the courses listed at the 200 level; and two advanced half-courses from among the courses listed at the 300 level. Under special circumstances and with the permission of the department, students may take second-year courses for advanced credits.

ALLIED SUBJECTS: Biology, Chemistry, Economics, English, History, History of Art, Mathematics, Music, Physics, Political Science, Psychology, classical and modern literatures, and certain courses in Anthropology, History of Religion and Sociology.

101a & b. *Greek Philosophy*: Members of the Department.

A study of the origins and development of philosophic thought in Ancient Greece, with particular emphasis on the major works of Plato and Aristotle.

201a & b. *Modern Philosophy*: Members of the Department.

A study of the development of modern philosophic thought from Descartes to Kant. Prerequisite: Philosophy 101a.

202a. *Kant*: Mr. Ferrater Mora.

A close examination of some central themes in the *Critique of Pure Reason*.

202b. *Recent Metaphysics*: Miss Stearns.

The metaphysics of Mead, Bergson, Whitehead and related thinkers.

203a. *Logic*: Mr. Meyer.

An introduction to modern logic.

203b. *Ethics*: Miss Knox.

A study of the classical ethical theories, hedonist, utilitarian, rational and idealist, with particular emphasis upon the analysis of action and judgment, rightness and goodness, and obligation.

204a. *Philosophy of Religion*: Miss Potter.

The existence and nature of God and the character of religious language.

204b. *Medieval Philosophy*: Miss Potter.

The history and development of medieval philosophy from its origins in classical and Patristic thought to the fifteenth century.

205b. *Contemporary Philosophy: Analytic*: Miss Trebilcot.

A study of recent British and American philosophy with emphasis on the work of Wittgenstein.

206b. *Contemporary Philosophy: Existential*: Mr. Ferrater Mora.

A study of French and German existentialist philosophies, including those of Sartre and Heidegger.

[207a. *Hegel*.]

301a. *Aesthetics*: Mr. Nahm.

Types of aesthetic theory and problems concerning art, fine art, productivity, aesthetic judgment and aesthetic criticism.

[302a. *The Philosophy of Criticism*.]

303a. *Plato*: Miss Stearns.

A detailed study of some of Plato's later dialogues.

[304a. *Texts in Medieval Philosophy*.]

[304b. *Thomas Aquinas*.]

[305a. *Philosophy of the Enlightenment*.]

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305b. *Russian Philosophy*: Mr. Kline.

A critical survey of the major trends in Russian thought, from the eighteenth century through the Soviet period, with special attention to ethics and social philosophy.

[306b. *Descartes and Spinoza*.]

307a. *Philosophy of Language*: Miss Knox.

A study of the techniques of linguistic philosophy, with particular attention to ordinary language.

[308b. *The Philosophies of Schopenhauer, Marx and Nietzsche*.]

[309b. *Theory of Knowledge*.]

[310b. *Philosophy of History*.]

[311b. *Aristotle*.]

312b. *Philosophy of Science*: Mr. Meyer.

A survey of some key issues in the conceptual foundations of modern science, e.g. the nature of scientific explanation, causality and freedom in physics and biology, the empirical and the mathematical sciences.

FINAL EXAMINATION: The Final Examination consists of three written examinations. In 1967-8, two of the examinations will be on the subject of "Language and Reality." The third examination will be on a field offered in any advanced courses taken by the student during her senior year, or in an allied subject.

HONORS WORK: Honors work consists of independent reading and conferences with the instructor, directed to the preparation of a paper on a subject dealing with the technical problems of philosophy or emphasizing the connection of philosophy with general literature, history, politics and science, or with some special field in which the student is working.

Physics

PROFESSORS: WALTER C. MICHELS, PH.D., *Chairman*

ROSALIE C. HOYT, PH.D.

JOHN R. PRUETT, PH.D.

ASSISTANT PROFESSOR: JOHN R. OLSON, PH.D.

ASSISTANTS: EDWARD F. GARDNER, M.S.

PATRICIA M. MOONEY, A.B.

ROBERT PECKMAN, M.S.

MICHAEL J. SHEA, M.S.

The courses offered to students majoring in Physics emphasize the techniques that have led to our present state of understanding of the material universe rather than facts about the universe; they are designed to relate the individual parts of physics to the whole rather than to treat them as separate disciplines. In her progress from a general survey of the subject in her first-year course to the preparation for the final examination in the senior year, the student applies her growing grasp of experimental and logical techniques to increasingly independent studies of physical phenomena.

REQUIREMENTS IN THE MAJOR SUBJECT: Physics 101 or 102, 201a, 202b, 302b and 306a, and at least one and one-half units of advanced work, to be chosen from 301a, 303b, 304, 305c; Chemistry 101; Mathematics 101 and 201. A third unit of Mathematics is strongly recommended. Students are encouraged to meet some of the major and allied requirements by advanced standing or placement examinations.

ALLIED SUBJECTS: Biology, Chemistry, Geology, Mathematics, Philosophy, Psychology.

101. *Introduction to Modern Physics*: Mr. Pruett, Mr. Olson.

A study of the principal phenomena of classical and modern physics in the light of the developments of the past sixty years. Three lectures and three hours of laboratory a week.

102. *Introductory Chemistry and Physics*: Mr. Michels, Mr. Varimbi, Miss Hoyt.

See Interdepartmental Course 102, page 128.

201a. *Electricity and Magnetism*: Miss Hoyt.

Behavior of electric currents, elementary direct current and alternating current circuit theory, magnetic effects of currents, electrostatic phenomena, Maxwell's equations, applications to atomic phenomena. Three lectures and four hours of laboratory per week. Prerequisites: Physics 101 or 102, Mathematics 201 (may be taken concurrently).

202b. *Optics*: Mr. Pruett.

Geometrical optics, interference and diffraction phenomena, polarization, dispersion, and scattering studied from the point of view of electromagnetic radiation; spectra and the Bohr atom. Three lectures and four hours of laboratory per week. Prerequisites: Physics 201a, Mathematics 201 (may be taken concurrently).

301a. *Classical Mechanics*: Mr. Olson.

Newtonian mechanics of particles and of rigid bodies, consequences of special relativity theory, generalized mechanics, vibrations and waves, applications to atomic and nuclear phenomena. Three lectures and four hours laboratory per week. Prerequisites: Physics 201a, 202b, Mathematics 201.

302b. *Atomic and Nuclear Structure*: Mr. Michels, Mr. Pruett.

Development of quantum theory and wave mechanics with applications to atomic structure and spectroscopy. Nuclear structure models and reactions. Fundamental particles. Two hours of discussion a week. Prerequisites: Physics 303b (may be taken concurrently).

303b. *Thermal Properties of Matter*: Mr. Michels.

The application of mechanics and probability concepts to systems of particles; the laws of classical thermodynamics and their connection with statistical models; equilibrium and transport problems; classical and quantum statistics. Three lectures and four hours laboratory per week. Prerequisites: Physics 301a, Mathematics 201.

304. *Introduction to Theoretical Physics*: Miss Hoyt.

The application of generalized mechanics to coupled systems and continuous media; electric, magnetic, and electromagnetic fields; radiation. Emphasis is placed on boundary value problems. Mathematical methods are developed as needed. Four hours a week. Prerequisites: Physics 201a, 201b and 301a (may be taken concurrently), Mathematics 201. Mathematics 301 or Chemistry 203 may be substituted for Physics 301a and 303b.

305c. *Physical Measurements.*

Precision measurements of electromagnetic, optical and atomic phenomena. Four hours of laboratory a week. Prerequisites: Physics 301a and 303b (may be taken concurrently).

306a. *Unified Classical Physics:* Miss Hoyt, Mr. Olson.

A general coverage of classical physics (including relativity and classical quantum theory) from a more mature point of view than is possible in earlier courses. The subject matter covered in Physics 201a, 202b, 301a, and 303b is integrated and extended in preparation for the Final Examination in the Major Subject. Two hours of discussion a week. Prerequisites: Physics 301a (may be taken concurrently).

FINAL EXAMINATION: The Final Examination for students majoring in Physics is in three parts:

1. Foundations of Physical Theory (required of all students).
2. Descriptive Physics. A student may substitute an approved examination in an allied field for this examination.
3. An examination in the special field of Atomic and Nuclear Physics (required of all students).

HONORS WORK: Honors work may be taken by seniors recommended by the Department. It consists of reading and experimental work on some problem of physics.

Political Science

The Caroline McCormick Slade Department of Political Science

PROFESSORS: PETER BACHRACH, PH.D., *Chairman*

GERTRUDE C. K. LEIGHTON, A.B., LL.B.¹

ASSOCIATE PROFESSOR: MELVILLE T. KENNEDY, JR., PH.D.

ASSISTANT PROFESSORS: CHARLES E. FRYE, PH.D.

ROBERT F. LYKE, M.A.

DEAN OF THE COLLEGE: DOROTHY NEPPER MARSHALL, PH.D.

The major in Political Science is concerned with study of theories of government and with analysis of the structures and processes of modern political communities.

REQUIREMENTS IN THE MAJOR SUBJECT: Students majoring in Political Science must take a minimum of four units in the major and two in allied work. At least one unit of major work must be taken in advanced courses. As a prerequisite to all other courses offered, majors must complete one unit of work chosen from among the following: 201a, 203a, 204b, 205a, 206b, 207b, 209b. Students who are not majors in the Department may meet this prerequisite in the same way, or alternatively by completing one half unit of allied work and one half unit in Political Science chosen from the list of courses above. For required fields in the major, see page 116 under Final Examination.

Non-majors wishing to take a field in preparation for the final examination in Political Science must consult the chairman in advance of taking courses in the special field. With the permission of the Department, courses at Haverford College, other than those listed below, may be taken for major or allied credit.

ALLIED SUBJECTS: Anthropology, Economics, Education, History, Philosophy, Psychology and Sociology. With the permission of the Department, certain courses offered by the modern language departments may be accepted as allied subjects.

1. On part-time leave, semester I, 1967-8.

201a. *American National Politics*: Mr. Bachrach, Mr. Lyke.

An analysis of the political behavior of individuals and groups within the context of the legislative and administrative process will be emphasized. Theories relating to the governmental process in the United States will be incorporated within this analysis and recent studies in political sociology will be relied upon as background material.

[202a. *Western Political Theory: Ancient and Medieval*: Mr. Frye.]

A study of the development of theory: Greek, Roman and Christian, and medieval, concluding with a discussion of the problems of theory in the sixteenth century.

203a. *Government and Politics in East Asia*: Mr. Kennedy.

An approach to modern Asian politics (prior to 1950) through a study of the major philosophic and institutional features of dynastic China and areas under Chinese cultural influence. India and Japan are considered for comparative purposes.

204b. *Communism and Nationalism in Asia*: Mr. Kennedy.

A consideration of the central concepts in communism and nationalism and of their role in the sweeping changes Asia has experienced since World War II.

205a. *Government and Politics in Western Europe*: Mr. Frye.

A comparative analysis of the contemporary political systems of Great Britain, France and Scandinavia, with special reference to factors making for stable and effective democracy.

206b. *Values, Science and Politics*: Miss Leighton.

Designed as a study of the discipline of political science, the course examines the philosophical, historical and scientific approaches to the political process. Illustrative problems are selected from the legal, international and comparative fields.

207b. *Government and Politics in Western Europe*: Mr. Frye.

A comparative analysis of the contemporary political systems of Germany, Italy, and the Soviet Union.

[208a. *Introduction to Latin America*: Mrs. Marshall.]

A comparative analysis of political systems of Latin America.

Bryn Mawr College

- 209b. *Western Political Theory: Hobbes to the Present*: Mr. Lyke.

A study of the fundamental problems of modern Western political thought, based on an analysis of the writings of the leading theorists.

- 210b. *The Soviet System*: Mr. Hunter, Haverford College (Economics 32).

See Interdepartmental Course 210b, page 128.

- 211a. *Latin American Economies and Politics*: Mr. Baratz, Mrs. Marshall.

Analysis of certain fundamental economic and political problems in Latin America. Open to students who have had at least one year of Political Science (for prerequisites, see page 112) and Economics. Preference given to those with a reading knowledge of Spanish or Portuguese.

- 216b. *African Civilization*: Mr. Glickman, Haverford College (Social Science 38).

A study of political ideologies, systems and processes in new states. The impact of the West on traditional societies, the growth and effects of nationalism and the problems of stability and popular government are emphasized.

- 218a. *Metropolitan Government*: Mr. Lyke.

Analysis of the forces affecting the structure of metropolitan regions. The functions and politics of government at the local and metropolitan levels. Intergovernmental relations. Current administrative problems, economic development, urban renewal and poverty. Field work in greater Philadelphia.

- 219b. *American Constitutional Law*: Mr. Bachrach.

A detailed analysis of selected Supreme Court decisions on four or five leading topics.

- 221b. *International Law*: Miss Leighton.

An examination of the doctrines and practices of international law. Traditional material is considered in the context of the contemporary political process, with some emphasis on methodological problems.

COURSES AT HAVERFORD

- 223a. *The Political Process: Presidency and Congress*: Mr. Waldman (Political Science 21).

227a. *Political Theory: Context of Public Policy*: Miss Shumer.

228b. *Public Opinion in the Political System*: Mr. Waldman (Political Science 22).

[224a. *Comparative Politics: Western*: Mr. Glickman (Political Science 23).]

[225b. *Comparative Politics: Non-Western*: Mr. Glickman (Political Science 24).]

226b. *International Organization*: Mr. Mortimer.

An analysis of the world political system with particular reference to the necessary conditions for a minimum world order.

229b. *Public Policy: Civil Rights and Poverty*: Miss Shumer.

301a. *Law and Society*: Miss Leighton.

An introduction to the nature of legal obligation and its relation to selected social institutions. Typical legal problems pertaining to the family, property and government are discussed.

302b. *Law, Policy and Personality*: Miss Leighton.

Selected topics in the study of the relation between the legal process and personality development and structure. Attention is given, in the light of this perspective, to the policy implications of various legal doctrines pertaining to such subjects as divorce, child-rearing, criminal responsibility. Open to students who have taken: Political Science 207a, 301a, 311a, or with the permission of the instructor.

303a. *Problems in International Politics*: Mr. Kennedy.

A study of developments in international politics since World War II. Emphasis will be given to an analysis of the origins and development of the Cold War, to the role of the new states in world politics, and to the implications of the development and spread of nuclear weapons technology.

304b. *West European Integration*: Mr. Frye.

An analysis of postwar moves toward integration in Western Europe, with special emphasis upon the factors behind integration and upon the impact of integration upon member societies.

[306b. *The Problem of Power in Contemporary Society*.]

[307a. *Modern Germany*: Mr. Frye.]

308a. *American Political Theory.*

The development of American political ideas from the Revolution to the present, with some attention to the English and Colonial origins.

[309b. *Selected Topics in Modern Political Thought:* Mr. Frye.]

312b. *China and Japan: Problems of Modernization:* Mr. Kennedy.

The course focuses on internal responses to the Western impact as revealed in changing attitudes, revised values and new institutions; and on external policies and relations. Special attention to evidences of continuity and change and to comparison of political developments in the two countries.

[313b. *Problems in Constitutional Law:* Mr. Bachrach.]

[314a. *Methodology in Political Science:* Mr. Frye.]

315b. *American Bureaucracy:* Mr. Bachrach.

After a somewhat detailed analysis of Weber's theory of bureaucracy, the course will be focused on the relation of democracy and bureaucracy in American society.

316b. *Urban Affairs:* Mr. Lyke.

Selected topics.

320a. *Seminar in Political Theory and Public Policy:* Miss Shumer, Haverford College.

[321a. *Topics in Contemporary Theory.*]

322a. *The 18th Century Philosophes:* Mr. Gutwirth, Haverford College.

FINAL EXAMINATION: The Final Examination consists of three parts, the first of which is a general examination in Political Science and must be taken by all seniors majoring in the Department.

The second and third examinations each cover one of the following specialized fields:

Political Philosophy and Theory

Political Theory: Context of Public Politics

American Political Theory

Research Seminar in Political Theory and Public Policy

The 18th Century Philosophes

The Problem of Power in Contemporary Society
Value, Science, and Politics
Western Political Theory: Ancient and Medieval
Western Political Thought: Hobbes to the Present
Selected Topics in Modern Political Thought
Topics in Contemporary Theory

Politics and Law in American Society

American National Politics
Metropolitan Government
The Political Process: Presidency and Congress
Law and Society
Constitutional Law
Problems in Constitutional Law
Public Opinion in the Political System
Public Policy: Civil Rights and Poverty
Law, Policy, and Personality
American Bureaucracy
Urban Affairs

Comparative Politics

Government and Politics in Western Europe
Western European Integration
Modern Germany
The Soviet System
Introduction to Latin America
Latin American Economics and Politics
Communism and Nationalism in Asia
China and Japan: Problems of Modernization
Comparative Politics: Western; non-Western
Government and Politics in East Asia

International Politics and Law

International Politics and Foreign Policy
International Law
Problems in International Politics
International Organization
(With the consent of the Department, certain comparative courses may be counted in this field.)

HONORS WORK: Seniors admitted to Honors work prepare an independent research report (one unit of credit) under the supervision of a member of the Department. Weekly conferences are held. Field work is encouraged.

Psychology

PROFESSORS: MORTON EDWARD BITTERMAN, PH.D., *Chairman*
RACHEL DUNAWAY COX, PH.D.

ASSOCIATE PROFESSORS: ROBERT SIMON DAVIDON, PH.D.
RICHARD CHARLES GONZALEZ, PH.D.

ASSISTANT PROFESSOR: EARL THOMAS, PH.D.

LECTURER: ERIKA ROSSMAN BEHREND, M.A.

ASSISTANTS: RUTH BARISH, M.A.
NAN K. HOLMES, M.A.

The Department offers to the major student a choice between two plans of study, one a concentration in Experimental Psychology and the other a concentration in Social Psychology. In Experimental Psychology, the student is concerned with the analysis of individual behavior and its physiological basis under the controlled conditions of the laboratory. Sensory processes, motivation, emotion, learning, and intelligence are treated in evolutionary perspective, and the relation of Psychology to the other natural sciences is emphasized. In Social Psychology, the student is concerned with the influence of society on the development of personality and with the psychological analysis of the behavior of man in society. The relation of Psychology to other social sciences is emphasized.

REQUIREMENTS IN THE MAJOR SUBJECT: Psychology 101 and 202a are required of all students majoring in Psychology.

For concentration in Experimental Psychology: Psychology 201a, 201b, 301a, 301b, 302, and one unit of allied course work at the 200 level or above.

For concentration in Social Psychology: Psychology 205a, 205b, 305a, and 307a; two courses selected from Psychology 206a, 207b, 306b, 308b, and 309b; and one unit of work in an allied subject or in Experimental Psychology.

ALLIED SUBJECTS: For concentration in Experimental Psychology—Biology, Chemistry, Physics, and Mathematics; for concentration in Social Psychology—Anthropology, Economics, Philosophy, Political Science, and Sociology.

101. *Introduction to Psychology*: Mr. Bitterman, Mr. Gonzalez, Mr. Thomas.

The experimental study of behavior and its physiological basis. A survey of methods, facts, and principles: sensation, perception, motivation, emotion, learning, and thinking. Three hours of lecture and two hours of laboratory each week.

- 201a. *Animal Learning*: Mr. Bitterman.

Comparative studies of conditioning and selective learning; theories of learning; the evolution of intelligence. Three hours of lecture and three hours of laboratory each week.

- [201b. *Human Learning and Thinking*: Mr. Gonzalez.]

- 202a. *Experimental Methods and Statistics*: Mrs. Behrend.

Measurement, descriptive statistics, probability, association, testing of hypotheses, and the design of experiments. Three hours of lecture and two hours of laboratory each week.

- 205a. *Social Psychology*:

The psychological study of man in society.

- 205b. *Psychology of the Normal Personality*:

Survey of the major theories. Developmental, clinical and experimental evidence relating to the "normal" personality.

- [206a. *Child Psychology*: Mrs. Cox.]

The development of the child from infancy to maturity. Physical, intellectual, and emotional growth and learning in the family and the school. Three hours of lecture and two hours of laboratory each week.

- 207b. (Psychology 22 Haverford) *Psychology of Language*: Mr. D'Andrea.

- 301a. *Central Nervous System and Behavior*: Mr. Thomas.

The physiological and anatomical bases of behavior. Three hours of lecture and three hours of laboratory each week.

- 301b. *Sensory Processes*: Mr. Thomas.

The physiological and anatomical bases of the reception and analysis of stimuli. Psychophysics and modern signal-detection theory. Three hours of lecture and three hours of laboratory each week.

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[302. *Advanced Comparative Psychology*.]

305a. *Perception*: Mr. Davidon.

Differentiation and organization of the perceived environment, visual, auditory, and tactual-kinesthetic. Three hours of lecture and three hours of laboratory each week.

306b. *Psychological Measurement*: Mr. Davidon.

Trait assessment and prediction; demonstration and evaluation of principal tests; scaling and test development; the structure of human abilities. Three hours of lecture and two hours of laboratory each week.

[307a. (Psychology 37 Haverford) *Communication, Propaganda, and Attitude Change*: Mr. Perloe.]

308b. *Psychology of the Abnormal Personality*: Mrs. Cox.

Concepts of normality, types of abnormality, methods of investigation and principles of treatment. Three hours of lecture each week. Visits to mental health centers and training school facilities for special lectures and observation.

309a. (Psychology 35 Haverford) *Human Reasoning and Judgment*: Mr. Rowe.

310a & b. *Advanced Experimental Psychology*: Members of the Department.

Specialized training in a selected area of investigation. May be taken in either semester or throughout the year. Prerequisite: Permission of the Department.

Senior Conferences: Members of the Department.

Weekly conferences, and, for selected students, seminars on special topics in preparation for the Final Examination.

FINAL EXAMINATION: The Final Examination consists of one general examination in either Experimental Psychology or Social-Personality and two specialized examinations in specific fields of Psychology. With the approval of the Department, an examination in an allied field may be substituted for one of the specialized examinations.

HONORS WORK: One unit of Honors work may be taken by students nominated by the Department. This unit may be substituted for one of the specialized examinations.

Russian

PROFESSOR: FRANCES DE GRAAFF, PH.D., *Chairman*

ASSISTANT PROFESSORS: IRENE NAGURSKI, PH.D.
RUTH L. PEARCE, PH.D.

PART-TIME INSTRUCTOR: HELEN SEGALL, B.S.

PROFESSOR OF PHILOSOPHY: GEORGE L. KLINE, PH.D.¹

The Russian major is designed to offer the students the opportunity to learn both to read and speak Russian and to achieve an understanding of the literature, thought and culture of both pre-revolutionary and contemporary Russia. Students in all courses are encouraged to make use of the tapes available in the Language Laboratory. In Russian 1, 101, 202, the use of the Laboratory forms an integral part of the course.

REQUIREMENTS IN THE MAJOR SUBJECT: Russian 1, 101, 200, 201 and one advanced course. Also Russian 203 or History 43-44 (History of Russia). If a student offers Russian for entrance, Russian 203 or History 43-44 may be substituted.

ALLIED SUBJECTS: History 204b, 43-44 (strongly recommended), 301; Political Science 201a, 210; any language or literature, History of Art, Music, Philosophy.

1. *Elementary Russian*: Miss de Graaff, Mrs. Pearce.

The basic grammar is learnt and enough vocabulary to enable the student to speak and understand simple Russian and to read simple texts.

101. *Intermediate Russian*: Mrs. Pearce, Miss Nagurski.

Grammar review and composition. Introduction to the Russian literary language. Plays, novels, and some contemporary political material are read.

200. *Advanced Training in the Russian Language*: Mrs. Segall.

1. On leave, semester I, 1967-8.

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201. *Readings in Russian Literature*: Miss Nagurski.

Representative writers of the nineteenth and twentieth centuries. Conducted mostly in Russian.

[202.* *General Readings in Russian*.]

Primarily intended for students who want a good reading knowledge of the language, but are not majoring in Russian. The reading texts cover a wide variety of subject matter, such as history, economics, politics, science, as well as literature. Some lectures in Russian about the cultural background of Russia are included, with oral reports and discussion of specific topics in Russian. Prerequisite: two years of Russian language.

203.* *Russian Literature in Translation*: Miss Nagurski.

The leading Russian writers of the nineteenth century in translation. Students registering for the course should read in the preceding summer the following novels: Dostoevsky's *Crime and Punishment*, Tolstoi's *War and Peace* and two of Turgenev's novels.

An advanced course, given in Russian, is selected each year from the following:

[301. *Russian Poetry of the Nineteenth Century*: Miss de Graaff.]

[302. *Pushkin and His Time*: Miss de Graaff.]

303. *Russian Literature of the Twentieth Century*: Miss de Graaff.

[304. *Social Trends in Nineteenth-Century Russian Literature*: Miss de Graaff.]

FINAL EXAMINATION: The Final Examination for students majoring in Russian consists of three parts:

1. The Russian language: ability to speak and understand the spoken idiom; ability to translate from the Russian.
2. A period of Russian literature.
3. A single topic of Russian literature or an allied subject. The Department is especially interested in allied subjects in the social sciences.

HONORS WORK: Honors work is offered to students recommended by the Department.

Sociology

PROFESSOR: EUGENE V. SCHNEIDER, PH.D., *Chairman*

ASSISTANT PROFESSOR: JUDITH R. PORTER, PH.D.

PROFESSOR OF SOCIAL WORK

AND SOCIAL RESEARCH: BERNARD ROSS, PH.D.

The aim of the major in Sociology is to provide the student with a general understanding of the structure and functioning of modern society, its major institutions, groups, values, and of the interrelations of these with personality. Attention is also paid to the major stresses and strains of modern society, and the resultant social problems. Free elective work is offered to those who may be interested in applying their knowledge to the field of social work.

The work of this program is closely integrated with the work in Sociology offered at Haverford College. The student will note that one course is required at Haverford, and that other courses are open for the major work.

REQUIREMENTS FOR THE MAJOR SUBJECT: 102a & b, 31 (Haverford), 302a, and one additional unit and a half of work to be chosen from courses offered at Bryn Mawr or courses above the introductory level at Haverford.

ALLIED SUBJECTS: Anthropology, Economics, Psychology, Political Science, Philosophy, History, and Mathematics.

102a. *Introduction to Sociology*: Mrs. Porter.

An analysis of the basic sociological perspectives, methods and concepts used in studying society. Emphasis will be placed on culture, social system and personality and their interrelationships. Concrete applications of sociological analysis will be examined.

102b. *American Social Structure*: Mr. Schneider.

Analysis of the structure and dynamics of complex, industrial societies. Examples will be drawn from several societies, but major emphasis is on the United States.

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[202a.* *History and Philosophy of Social Welfare*: Mr. Ross.]

205b. *Social Stratification*: Mr. Schneider.

Examination of theoretical and methodological problems in the field of stratification, with special reference to the relationship of class structure to the culture and to personality systems.

207a. *Race Relations*: Mrs. Porter.

An examination of theories of prejudice and attitude change. The structure of the minority community and its relationship to the majority group will be discussed, with major emphasis placed on Negro-white relations in the United States. Prerequisite: Sociology 102a or consent of the instructor.

209b. *Sociology of Religion*: Mrs. Porter.

Analysis of the interrelationship between religion and society, drawing upon the works of major social theorists. Emphasis will be placed on the connection between religious systems and secular culture and social structure, including the role of religion in social change, secular values, and personality systems. Prerequisite: Sociology 102a or consent of the instructor.

302a. *Social Theory*: Mr. Schneider.

Analysis of the theoretical work of several classical and modern thinkers. Among the writers to be examined are Marx, Weber, Durkheim, Freud, Pareto, Marcuse, Parsons.

COURSES AT HAVERFORD

The following is a selection of the courses being offered at Haverford. Majors in Sociology who wish to enroll in courses other than those listed here should consult with the Department of Sociology at Bryn Mawr.

23. *Social Disorganization and Deviant Behavior*: Mr. Batson.

An analysis of the theories and problems of social disorganization and deviant behavior of individuals and groups. Field trips to mental hospitals and prisons.

27. *African Social Stratification*: Mr. Batson.

Findings, methods, and implications of stratification studies in East and Southern Africa. Topics will include concepts, units, biological and sociocultural bases, and functions of stratification.

Illustrations will be drawn mainly from field research in Zanzibar, Rhodesia, Lesotho, and the Republic of South Africa.

31. *Social Research and Analysis*: Mr. Effrat.

Selection, design, and execution of a study on a contemporary social problem with a view toward understanding methods of data gathering and analysis in sociological research. Topics will include the relation between theory and methodology, selection of problems and hypotheses, research strategies, theory of measurement, questionnaire construction, interviewing, elementary social statistics, and models of explanation.

41. *Anthropology of Religion*: Mr. MacGaffey.

Terms, concepts, and problems. Contributions of the most important theorists examined, particularly French authors. Special attention to materials illustrating messianism and syncretism. (A knowledge of French is not essential).

FINAL EXAMINATION: The Final Examination for students majoring in Sociology is in two parts:

1. General Sociology.
2. A special field in Sociology, such as Social Theory, Race Relations, Sociology of Religion, Industrial Sociology, Social Disorganization. An allied field may be substituted for one of these.

HONORS WORK: Honors work is offered to selected students and will consist of independent reading and research, conferences and the preparation of a written report.

Spanish

PROFESSOR: JOAQUÍN GONZÁLEZ MUELA, *D. en F.L.*

ASSOCIATE PROFESSOR: WILLARD FAHRENKAMP KING, PH.D.,
Chairman

ASSISTANT PROFESSOR: PHYLLIS TURNBULL, *D. en F.L.*

LECTURER: ELEANOR KRANE PAUCKER, PH.D.

INSTRUCTOR: CARMEN SALVONI, *Lic. F.L.*

DEAN OF THE COLLEGE: DOROTHY NEPPER MARSHALL, PH.D.

PROFESSOR OF PHILOSOPHY: JOSÉ MARÍA FERRATER MORA, *Lic. F.L.*

The major in Spanish includes work in both literature and language. It includes a two-year survey of Spanish literature, followed by more specialized advanced courses dealing with the literature of special periods, or with various literary forms. One course is devoted to training in written and spoken Spanish. Students are encouraged to supplement their course work by spending the Junior year in Spain or a summer in a Spanish-speaking country, or by living in the Spanish House. It is strongly advised that all students make use of the tapes available in the Language Laboratory. In Spanish 1 and 3 the use of the Laboratory forms an integral part of the course.

REQUIREMENTS IN THE MAJOR SUBJECT: Spanish 101, 102, 202, and at least two advanced courses. Students who spend the Junior year in Spain may substitute an advanced literature course for Spanish 202.

ALLIED SUBJECTS: Any other language or literature, Economics, History, History of Art, Music, Philosophy, Political Science, and Sociology and Anthropology.

1. *Elementary Spanish*: Miss Salvoni, Miss Turnbull.

Grammar, composition, readings on the Spanish and Spanish-American background.

3. *Intermediate Spanish*: Mr. González Muela.

Intensive grammar reviews, exercises in composition and conversation, selected readings from modern Spanish texts.

- [101. *Masterpieces of Spanish Literature (from 1700 to 1936)*: Mrs. King.]

A panoramic view of the development of Spanish literature during the eighteenth, nineteenth and twentieth centuries, emphasizing representative works of each period or literary school: Neoclassicism, Romanticism, Realism, etc.

102. *Masterpieces of Spanish Literature (from the Poema del Cid to 1700)*: Mrs. King.

A survey of Medieval, Renaissance and Baroque literature, emphasizing the development of the various genres. Special attention is given to the Spanish Golden Age.

202. *Spanish Readings and Composition*: Mr. González Muela, Miss Turnbull.

Designed to aid the student in interpretation of texts, appreciation of stylistic differences, translation and original composition in Spanish. Assignments are adapted to the needs and level of achievement of the individual student.

- 203a. *Spanish American Literature — The literary revolution*: Mrs. Paucker.

Poetry and prose from the *Modernista* movement to the present.

- 203b. *Spanish American Literature — The political and social revolution*: Mrs. Paucker.

The development of the national ideal in the prose writers from Sarmiento to the present.

- 302a. *Medieval Spanish Literature*: Miss Turnbull.

- 303a. *The Modern Novel in Spain*: Mrs. King.

The development of the Spanish narrative from the Generation of 1898 to the present.

- 303b. *Modern Spanish Poetry*: Mr. González Muela.

Spanish poetry from *Modernismo* to the present.

- [304a. *The Age of Cervantes*: Mr. González Muela.]

The development of Cervantes' art in the drama, the short story, and the novel, with special attention to *Don Quixote*.

- [304b. *Drama of the Golden Age*: Mrs. King.]

Representative works of Cervantes, Lope de Vega, Tirso de Molina, Calderón and other outstanding dramatists.

[305. *Prose Fiction of the Renaissance.*]

From *La Celestina* to *Don Quixote*.

FINAL EXAMINATION: The Final Examination is in three parts:

1. An oral examination in Spanish consisting of the explanation and interpretation of a Spanish text.
2. A three-hour written examination in Spanish on a period of Spanish literature.
3. A three-hour written examination on the development of a literary genre through Spanish literature.

An examination in an allied subject may be substituted for one of the two written examinations.

HONORS WORK: Honors work is offered to students recommended by the Department. This work consists of independent reading, conferences and a long paper.

Interdepartmental Courses

The following courses are given by two or more departments in cooperation. The object is to cut across well-defined areas of knowledge and to show the relationships existing among them. Also listed are courses in a single discipline, such as Linguistics, which are of special importance to several departments.

102. *Introductory Chemistry and Physics*: Mr. Michels, Mr. Varimbi, Miss Hoyt.

This course is intended to give an introduction in depth to our present knowledge of the physical world, and of its quantized, atomic and molecular structure, as well as of the processes by which this knowledge has been obtained. It will cover essentially all of the subject matter included in Chemistry 101 and Physics 101, and will serve as preparation for Chemistry 201a, Chemistry 202, and Physics 201a. One and one-half units. Five lectures and six hours of laboratory per week.

210b. (Economics 32, Haverford) *The Soviet System*: Mr. Hunter.

An analysis of the structure and functioning of major Soviet economic, political and social institutions. Current arrangements are studied as products of historical development. Present performance and prospects are evaluated. Prerequisites: Economics

Interdepartmental Courses

101 or a unit of second-year work in Political Science; or History 101. (This course is also listed as Political Science 210b.)

305a. *Latin American Economies and Politics*: Mr. Baratz, Mrs. Marshall.

Analysis of certain fundamental economic and political problems in Latin America. Open to students who have had at least one year of Political Science or Economics. Preference is given to those with a reading knowledge of Spanish or Portuguese. (This course is also listed as Economics 211a.)

307a. *Philosophy of Language*: Miss Knox.

Perspectives of linguistic analysis on concepts of existence, meaning, truth, perception: in Plato and Aristotle; Locke, Berkeley, Hume; and in twentieth century sources.

308. *Introduction to Linguistics*: Mrs. Anderson.

Introduction to the study of language: the interaction of language and culture; methods of tracing the history of languages and their interrelationships; techniques in structural analysis in American descriptive linguistics.

Physical Education

DIRECTOR: IRENE A. CLAYTON, M.S.

INSTRUCTORS: JAN EKLUND FISHER, M.ED.
ANN CARTER MASON, B.S.
SHARON PLOWMAN, M.S.
GLORIA K. SCHMIDT, M.A.
JANET A. YEAGER

To adjust to the revised curriculum introduced for the Class of 1969 and later classes, the Department of Physical Education has developed a program to:

1. Recognize the student with a high degree of neuromuscular coordination and physical stamina, and encourage her to maintain this status.
2. Provide incentive for students of lower levels of neuromuscular coordination and physical stamina to improve to a higher more recognized standard.

Through a combination of tests, some already used for several years, a student's physical education profile score (P.E.P.) can be determined. On the basis of this profile score the student will be advised to what extent she has satisfied the freshman (or sophomore) requirement. She may have no required activity her freshman year or she may have to fulfill the usual first-year requirement. A student may request a re-test at the end of semester I. All students will be required to take the sophomore year in Physical Education unless a re-test is requested and passed in the Fall of that year.

Students of high-level profile scores are free to elect any activity offered by the Department, including those specialized units in Rhythms or Dance Orientation, Sports Orientation and Relaxation. Should a student in this level profile score not participate in activity, there are factors which will be sacrificed: regular activity, opportunity for social exchange, recreation, relaxation and the possible lowering of the profile score.

Students not in the high-level group will be advised of areas in which they need assistance, will be free to elect sports activities, and the choice of two of a three-unit course in movement education will be a required part of the program.

Areas contributing to a physical education profile to be determined by testing, using batteries of standardized tests and procedures, adapted to college women:

1. Swim test (for survival)
2. Aptitude and Achievement Battery (performance skill)
 - a. Standing broad jump
 - b. Sand bag throw
 - c. Obstacle course
3. Fitness Battery (strength and endurance)
 - a. Standing broad jump
 - b. Sit-ups
 - c. Push-ups
 - d. Step-ups
4. Body weight control

All students must complete the freshman and sophomore requirements satisfactorily, and must pass the swimming test administered at the beginning of the year to every new student unless excused by the College Physician. Students unable to pass this test are expected to register for beginning swimming. All classes are open to election by upperclassmen. Transfer students will have their physical education requirement reviewed by the Director of the Department.

Seasonal offerings are:

FALL: archery, fencing, golf, hockey, modern dance, movement education, riding,* swimming, tennis, volleyball, and American Red Cross Senior Life Saving Course. WINTER: badminton, basketball, diving, exercise, fencing, folk dance, modern dance, movement education, skating,* swimming, volleyball, and American Red Cross Water Safety Instructor Training Course. SPRING: archery, golf, lacrosse, riding,* soccer, swimming, tennis and volleyball.

SWIMMING TEST: Jump into deep end of pool (feet first entry), tread water one minute without use of hands, back float motionless two minutes, demonstrate two strokes while swimming lengths of pool for 10 minutes without stopping, resting, or touching bottom or sides of pool.

* Open only to Sophomores with permission of the Department.

Financial Aid

THE scholarships listed on the following pages have been made available to able and deserving students through the generosity of alumnae and friends of the College. Many of them represent the income on endowed funds which in some cases is supplemented by an additional grant, usually taken from expendable gifts from alumnae and parents. A student may apply for aid in a specific amount, but not from a particular fund.

The awards made from some scholarship endowments are reported in specific amounts. In the case of other awards for which the specific amount is not reported, the stipend is set according to the needs of the student.

Three outstanding scholarship programs have recently been established by the National Merit Scholarship Corporation, the General Motors Corporation and the Procter and Gamble Fund. Awards for the General Motors Scholarship and the Procter and Gamble Scholarship are made by Bryn Mawr College. The Ford Company has a scholarship program for the children of its employees as do other large corporations. In addition to the generous awards made by these companies there are many others made by foundations and by industrial and professional groups. Some of these are regional in designation. Students are urged to consult their schools and community agencies for information in regard to such opportunities.

Financial aid is held each year by thirty-five per cent of the undergraduate students. The value of the scholarships ranges widely, but the average grant is approximately \$1350. Requests for financial aid are reviewed by the Scholarship Committee and judged on the basis of the student's academic promise and achievement on the one hand, and, on the other, her financial situation and that of her family. Bryn Mawr College participates in the College Scholarship Service of the College Entrance Examination Board. Participants in the Service subscribe to the principle that the amount of aid granted a student should be based upon financial need. The Service assists colleges and other agencies in determining the student's need for financial assistance. All applicants must submit in support of application for financial aid the form entitled Parents' Confidential Statement which is prepared by the Service. When the total amount of aid needed has been determined, awards are made in the form of loans and scholarships. All students who are granted a scholarship in the

award of the College or the alumnae clubs will be required to borrow the first \$200 of their total financial aid from one of the loan funds (see page 153). Students receiving assistance generally plan to earn money by part-time work during the college year and by summer positions. Employment opportunities are described on page 152.

Scholarships are available both to entering students and to those who have completed one or more years of study in the College. Students entering on transfer from other colleges in the United States are eligible for scholarships only after the completion of one year of study at Bryn Mawr.

APPLICATIONS FOR FINANCIAL AID AVAILABLE AT ENTRANCE

Application forms for Financial Aid for the freshman year may be obtained from the Director of Admissions, Taylor Hall, Bryn Mawr College, Bryn Mawr, Pennsylvania. Each candidate for aid must also file with the College Scholarship Service, Box 176, Princeton, New Jersey, a form entitled Parents' Confidential Statement in Support of Application for Financial Aid. These two forms must be filed with the College and with the College Scholarship Service *no later than January 1* of the student's final year in high school in the case of regular applicants, and *no later than October 1* in the case of applicants under the Early Decision Plan.

The fact that a student has applied for financial assistance is not taken into consideration in evaluating the candidate's application for admission to the College.

Since scholarship funds of the College are not sufficient to cover the needs of the many well-qualified applicants, students are urged to consult their school counselors about national and local scholarships which may be available.

UNDERGRADUATE SCHOLARSHIPS

The renewal like the award of scholarships depends on the student's maintaining a good record. Application for the renewal of scholarships must be made annually. The necessary forms may be obtained in the Office of the Dean. Completed applications must be returned to the Scholarship Office of the College by January 6. A new financial statement completed by the applicant's family is required each year. Letters of support are requested from members of the faculty familiar with the student's academic work.

Scholarship Funds

Alumnae Regional Scholarships are available to students in all parts of the United States and Canada. These scholarships, raised by alumnae, vary in amount but may cover full tuition for four years. The awards are made by local alumnae committees and are announced to the candidates immediately after their notification of admission to the College. Holders of these scholarships who maintain a high standard of academic work and conduct, and who continue to need financial aid after the freshman year, are assured assistance either from alumnae committees in their districts or from the College. (1922)

The Alumnae Bequest Scholarship Fund, now totaling \$2,551, was established by bequests received for scholarships from alumnae of the College. (1965)

The Evangeline Walker Andrews May Day Scholarship was established by bequest of Evangeline Walker Andrews of the Class of 1893. The income from this fund of \$10,000 is to be used for undergraduate scholarships in the Department of English. Mrs. Andrews originated the Bryn Mawr May Day which was first held in 1900. (1963)

The Mabel Pierce Ashley Scholarship Fund was founded by bequest of Mabel Pierce Ashley of the Class of 1910. The income from the fund of \$25,000 is to be awarded as a scholarship or scholarships to undergraduate students majoring in History or English. (1963)

The Elizabeth Congdon Barron Scholarship Fund. In 1960, by Mrs. Barron's bequest of \$2,500, the Elizabeth Congdon Barron Fund was established "for the general purposes of the College." Through gifts from her husband, Alexander J. Barron, the fund was increased to \$25,000 and the Elizabeth Congdon Barron Scholarship Fund was established. Through further gifts from Mr. Barron, the endowment has been raised to \$50,000. (1964)

The Elizabeth P. Bigelow Memorial Scholarship Fund was established by gifts now amounting to \$50,209 from Mrs. Henry B. Bigelow in memory of her daughter Elizabeth P. Bigelow, who was graduated *cum laude* in 1930. (1960)

NOTE: The dates in parentheses in the listings on this and the following pages indicate the year the scholarship was established.

The Book Shop Scholarships are awarded annually from the profits of the Bryn Mawr College Book Shop and from the income from the Book Shop Fund, which now amounts to \$30,855. (1947)

The Mariam Coffin Canaday Scholarship Fund was established by a gift of \$18,866 from the Ward M. and Mariam C. Canaday Educational and Charitable Trust. The income from this fund is to be capitalized until the fund reaches the amount of \$25,000. Scholarships are then to be awarded from the income, with preference given to students from metropolitan Toledo, Ohio. (1962)

The Antoinette Cannon Memorial Scholarship Fund was established by a gift of \$30,400 by Janet Thornton of the Class of 1905 in memory of her friend Antoinette Cannon of the Class of 1907. (1963)

The Jeannette Peabody Cannon Memorial Scholarship Fund, now totalling \$13,416, was established in memory of Jeannette Peabody Cannon, Class of 1919, through the efforts of the New England Alumnae Regional Scholarship Committee, of which she was a member for twenty years. The scholarship is awarded every three years on the nomination of the Alumnae Scholarship Committee to a promising member of the freshman class, residing in New England, who needs financial assistance. The scholarship may be held during the remaining three years of her college course provided a high standard is maintained. In 1962, the fund was increased from \$7,405 to \$13,416 by a generous gift from Mrs. Donald Wing of New Haven. (1949)

The Susan Shober Carey Award was founded in memory of Susan Shober Carey by gifts now totalling \$3,300 from the Class of 1925 and is awarded annually by the President. (1931)

The Florence and Dorothy Child Memorial Scholarship of Bryn Mawr College was founded by bequest of Florence C. Child of the Class of 1905. The income from this fund of \$115,494 is to be used for the residence fees of one or more students who without such assistance would be unable to live in the halls. Preference is to be given to graduates of the Agnes Irwin School and to members of the Society of Friends. If no suitable applicants are available in these two groups, the scholarship aid will then be assigned by the College to students who could not live in residence without such assistance and who are not holding other scholarships. (1957)

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The Jacob Orie and Elizabeth S. M. Clarke Memorial Scholarship was established by bequest of \$5,000 from the estate of Elizabeth Clarke and is awarded annually to a student born in the United States or any of its territories. (1948)

The Class of 1903 Scholarship Fund was established by gift of \$12,295 on the occasion of the fiftieth reunion of the Class. The income from this fund is to be awarded annually to a member of the freshman, sophomore or junior class for use in the sophomore, junior or senior years. (1953)

The Julia Cope Collins Scholarship was established by bequest of \$10,000 from the estate of Julia Cope Collins, Class of 1889. (1959)

The Alice Perkins Coville Scholarship Fund, now totalling \$76,587, was established by Agnes Frances Perkins of the Class of 1898 in honor of her sister, Alice Perkins Coville. The income from this scholarship fund is used to aid a deserving student in need of financial assistance. (1948)

The Regina Katharine Crandall Scholarship was established by a group of her students as a tribute to Regina Katharine Crandall, Margaret Kingsland Haskell Professor of English Composition from 1918 to 1933. The income from this fund, which now amounts to \$10,225, is awarded on the recommendation of a committee composed of the Dean of the College, a representative of the English Department, and a representative of another department chosen by the Dean, to a sophomore, junior or senior who in her written English has shown ability and promise and who needs assistance to continue her college work. (1950)

The Annie Lawrie Fabens Crozier Scholarship Fund was established by a gift of \$31,656 from Mr. and Mrs. Abbott P. Usher in memory of Mrs. Usher's daughter, Annie Lawrie Fabens Crozier of the Class of 1951. The scholarship, in varying amounts up to full tuition, is to be awarded to a junior or senior of distinction who is majoring in English. (1960)

The E. Merrick Dodd and Winifred H. Dodd Scholarship Fund of \$2,000 was established by bequest of Dr. and Mrs. Dodd. (1953)

The Abby Slade Brayton Durfee Scholarship Fund, which now amounts to \$11,000 was founded in honor of his wife by bequest of Randall Nelson Durfee and increased by Mrs. Durfee and by

Randall N. Durfee, Jr. and Mrs. Charles B. Brown of the Class of 1930. Preference is given to candidates of English or American descent and to descendants of the Class of 1894. (1924)

The Anne Long Flanagan Scholarship was established by a gift of \$29,687 from Anne Long Flanagan of the Class of 1906 on the occasion of the 55th reunion of the class. The income is to be used to provide scholarships for Protestant students. (1961)

The Cora B. Fohs and F. Julius Fohs Perpetual Scholarship Fund was established by a gift of \$75,000 from the Fohs Foundation. The income only is to be used. (1965)

The Foundation Scholarships, varying in amount up to full tuition and tenable for four years, are made available by the Trustees of Bryn Mawr College. They are awarded to members of the Society of Friends who cannot meet the full expenses of tuition and residence. (1894)

The William Franklin Scholarship Fund was established by a bequest of \$35,985 from Susan B. Franklin of the Class of 1889. The income from this fund is to be used for scholarships for deserving girls, preference being given whenever possible to girls from the Rogers High School, Newport, Rhode Island. (1957)

The Edgar M. Funkhouser Memorial Scholarship Fund of \$30,000 was established from his estate by Anne Funkhouser Francis of the Class of 1933. Awards may vary in amount up to full tuition and be tenable for four years. Income from this fund may be awarded annually, first preference being given to residents of southwest Virginia; thereafter to students from District III eligible for aid in any undergraduate year. (1964)

The Helen Hartman Gemmill Scholarship, value \$500, given for the year 1967-8, is awarded to a student majoring in English from funds provided by the Warwick Foundation. (1967)

The General Motors Scholarship "makes it possible for students of ability but limited resources to complete their education and thus realize their potentialities to the fullest." In addition, the corporation makes available to private colleges unrestricted grants-in-aid toward that part of the costs of education not covered by the student's tuition. The award, tenable for four years, may be as high as \$2,000 a year, depending upon demonstrated need. The award is made "on the basis of secondary school records and reports, as well as extra-curricular activities

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and leadership characteristics." The selection is made by Bryn Mawr College. (1963)

The Anna Hallowell Memorial Scholarship was founded in memory of Anna Hallowell by her family. The income on a fund of \$2,585 is awarded annually to the junior in need of aid who has the highest academic record. (1912)

The Katharine Hepburn Scholarship, value \$1,000, given for the year 1967-8, is awarded in honor of Katharine Hepburn to a student interested in the study of drama and motion picture, and in the cultivation of English diction and of literary appreciation. (1952)

The Katharine Houghton Hepburn Memorial Scholarship was given in memory of Katharine Houghton Hepburn of the Class of 1900. The income on this fund, now totalling \$6,055, is awarded for the junior or senior year to a student who has demonstrated both ability in her chosen field and independence of mind and spirit. (1957)

The Jeanne Crawford Hislop Memorial Scholarship Fund of \$5,000 was given in memory of Jeanne Crawford Hislop of the Class of 1940 by Mr. and Mrs. John H. Hislop and Mrs. Frederic W. Crawford. The income from this fund has been supplemented by gifts from Mrs. John H. Hislop. This scholarship, awarded to a junior, may be renewed for the senior year. (1939)

The George Bates Hopkins Memorial Scholarships were founded by a gift of \$10,056 from Mrs. Elizabeth Hopkins Johnson in memory of her father. Preference is given to students of Music and, in default of these, to students majoring in History, and thereafter to students in other departments. (1921)

The Maria Hopper Scholarships, two in number, were founded by bequest under the will of Maria Hopper of Philadelphia and are awarded annually. The income from this fund of \$10,224 is used for aid to a sophomore. (1901)

The Leila Houghteling Memorial Scholarship Fund in the amount of \$10,180 was founded in memory of Leila Houghteling of the Class of 1911 by members of her family and a group of her contemporaries. It is awarded every three years on the nomination of the Alumnae Scholarships and Loan Fund Committee to a member of the freshman class in need of financial assistance and is held during the remaining three years of her college course. (1929)

Huguenot Society of America Grant. On the recommendation of the College a student of Huguenot ancestry may be nominated for a grant up to \$1,000 to be used for college expenses. (1962)

The Evelyn Hunt Scholarships, two in number, were founded in memory of Evelyn Hunt by bequest of \$10,000 under the will of Evelyn Ramsey Hunt of the Class of 1898. (1931)

The Lillia Babbitt Hyde Scholarship Fund was established by gifts of \$25,600 from the Lillia Babbitt Hyde Foundation to establish the Lillia Babbitt Hyde Scholarship for students whose major subject will lead to a medical education or a scientific education in chemistry, as far as possible. (1963)

The Jane Lilley Ireson Scholarship was established by a bequest of \$246,776 under the will of Jennie E. Ireson, her daughter. The income on each \$5,000 of this fund is to be awarded as a scholarship to a worthy student who may require financial assistance. (1959)

The Alice Day Jackson Scholarship Fund of \$10,195 was given by the late Percy Jackson in memory of his wife, Alice Day Jackson. The income from this fund is awarded annually to an entering student. (1930)

The Alice Lovell Kellogg Fund was founded by a bequest of \$5,000 by Alice Lovell Kellogg of the Class of 1903. The income is to be used for undergraduate scholarships. (1967)

The Minnie Murdoch Kendrick Memorial Scholarship, tenable for four years, was founded by bequest under the will of George W. Kendrick, Jr., in memory of his wife. The income on this fund of \$5,362 is awarded every four years to a candidate nominated by the Aluminae Association of the Philadelphia High School for Girls. (1916)

The Misses Kirk Scholarship Fund, now amounting to \$1,401, was founded in honor of the Misses Kirk by the Aluminae Association of the Kirk School in Bryn Mawr. (1929)

The Elizabeth B. Kirkbride Scholarship Fund was established by a gift of \$1,150 from Elizabeth B. Kirkbride of the Class of 1896. The income is to be used for undergraduate scholarships. (1964)

The Clara Bertram Little Memorial Scholarship was founded by Eleanor Little Aldrich, in memory of her mother. The income

from a fund now totalling \$11,000 is awarded to an entering student from New England selected by the President on the basis of merit and financial need. (1947)

The Mary Anna Longstreth Memorial Scholarship, established by a gift of \$5,000 and carrying free tuition, was given in memory of Mary Anna Longstreth by alumnae and children of alumnae of the Mary Anna Longstreth School and by a few of her friends. (1913)

The Lorenz-Showers Scholarship Fund now amounting to \$5,000 was established by Justina Lorenz Showers of Dayton, Ohio, of the Class of 1907, in honor of her parents, Edmund S. Lorenz and Florence K. Lorenz, and of her husband, John Balmer Showers. (1943)

The Gertrude Howard McCormick Scholarship Fund was established by gift of \$25,000 by the late Gertrude Howard McCormick. The scholarship, value \$1,000, is awarded to a student of excellent standing, preferably for her freshman year. If she maintains excellent work in college, she may continue to receive scholarship aid through her sophomore, junior and senior years. (1950)

The Constance Lewis and Martha Rockwell Moorhouse 1904 Memorial Scholarship Fund, now amounting to \$17,930, was established by the Class of 1904 in memory of Constance Lewis and Martha Rockwell Moorhouse of the Class of 1904. (1920)

The Evelyn Flower Morris Cope and Jacqueline Pascal Morris Evans Scholarship Fund, amounting to \$12,500, was established by members of their families in memory of Evelyn Flower Morris of the Class of 1903 and Jacqueline Pascal Morris of the Class of 1908. (1959)

The Jean Brunn Mungall 1944 Memorial Fund, now amounting to \$8,468, was established by the Class of 1944. The income is to be used for scholarships. (1955)

The Mary McLean and Ellen A. Murter Memorial Fund, now amounting to \$14,320, was founded in memory of her two aunts by bequest of Mary E. Stevens of Germantown, Philadelphia. By vote of the Board of Directors the income is used for an annual scholarship. (1933)

The Frank L. Neall and Mina W. Neall Scholarship Fund was established by a legacy of \$25,000 from the Estate of Adelaide W. Neall of the Class of 1906 in memory of her parents. The income is to be used for scholarship purposes at the discretion of the Trustees of the College. (1957)

The New Hampshire Scholarship Fund of \$15,000 was established in 1965 by the Spaulding-Potter Charitable Trust. A matching fund was raised by contributions from New Hampshire alumnae. Income from the two funds will be awarded each year to an undergraduate from New Hampshire on the recommendation of the New England Regional Scholarship Committee. (1965)

The Alice F. Newkirk Scholarship Fund was founded by a bequest of \$2,500 by Alice F. Newkirk. The income is to be used for scholarships. (1965)

The Mary Frances Nunns Scholarship was established by a bequest of \$25,275 under the will of Mary Frances Nunns. The income only is to be used. (1960)

The Florence Morse Palmer Scholarship was founded in memory of Florence Morse Palmer by her daughter, Jean T. Palmer of the Class of 1924, by gifts now totalling \$10,000. (1954)

The Margaret Tyler Paul Scholarship was established by a 40th Reunion gift of \$30,000 from the Class of 1922. (1963)

The Fanny R. S. Peabody Scholarship Fund was established by bequest of \$177,927 in the will of Fanny R. S. Peabody. Until the autumn of 1964, the income from this fund was used to support the Seven College Conference Scholarships. With the reorganization of the latter program, the income from the Peabody Fund will be awarded to students from the western states. (1943)

The Delia Avery Perkins Scholarship was established by bequest of \$58,474 from Delia Avery Perkins of the Class of 1900. Mrs. Perkins was Chairman of the New Jersey Scholarship Committee for a number of years. The income on this fund is to be awarded to students entering from Northern New Jersey. (1965)

The Philadelphia Board of Public Education Scholarships, tenable for four years, are awarded to graduates of Philadelphia high

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schools nominated by the Board of Public Education of Philadelphia. (1898)

The Louise Hyman Pollak Scholarship was founded by the Board of Trustees from a bequest of \$5,061 by Louise Hyman Pollak of the Class of 1908. The income from this fund now totalling \$6,666, which has been supplemented by gifts from the late Julian A. Pollak, and his son, David Pollak, is awarded annually to an entering student from one of the central states, east of the Mississippi River. Preference is given to residents of Cincinnati. (1932)

The Anna M. Powers Memorial Scholarship was founded in memory of Anna M. Powers by a gift from her daughter, Mrs. J. Campbell Harris. The income on this fund of \$5,542 is awarded annually to a senior. (1902)

The Thomas H. Powers Memorial Scholarship was founded in memory of Thomas H. Powers by bequest under the will of his daughter, Mrs. J. Campbell Harris. The income on this fund of \$4,598 is awarded annually to a senior. (1902)

The Anna and Ethel Powers Memorial Scholarship was established by a gift of \$1,000 in memory of Anna Powers of the Class of 1890 by her sister, Mrs. Charles Merrill Hough. The fund is now re-established at \$11,308 in memory of both Anna Powers and her sister, Mrs. Hough (Ethel Powers), by Mrs. E. Baldwin Smith (Nancy Hough). (1919)

The Procter and Gamble Scholarship provides an amount up to full tuition and fees, and an allowance for books. The scholarship may be renewed annually throughout the four years on the basis of successful undergraduate performance and continuing financial need. This scholarship program was established by the Procter and Gamble Fund "in recognition of the responsibility assumed by private women's colleges in graduating capable, well-informed women." The award is made by Bryn Mawr College. (1955)

The James E. Rhoads Memorial Junior Scholarship was founded in memory of the first President of the College, Dr. James E. Rhoads, by the Alumnae Association of Bryn Mawr College. In 1958 and 1959, the Alumnae Association increased the fund to \$27,010, the income from which is awarded annually to a student who has attended Bryn Mawr College for at least

three semesters, has done excellent work and expresses her intention of fulfilling the requirements for the degree of Bachelor of Arts at Bryn Mawr College. (1898)

The James E. Rhoads Memorial Sophomore Scholarship was founded in memory of the first President of the College, Dr. James E. Rhoads, by the Alumnae Association of Bryn Mawr College. In 1958 and 1959, the Alumnae Association increased the fund to \$27,010, the income from which is awarded annually to a student who has attended Bryn Mawr College for at least one semester, has done excellent work and expresses her intention of fulfilling the requirements for the degree of Bachelor of Arts at Bryn Mawr College. (1898)

The Amelia Richards Scholarship was founded in memory of Amelia Richards of the Class of 1918 by bequest of \$11,033 under the will of her mother, Mrs. Frank P. Wilson. It is awarded annually by the Trustees on the nomination of the President. (1921)

The Maximilian and Reba E. Richter Scholarship Fund was established by a bequest of \$50,000 in the will of Max Richter, father of Helen Richter Elser of the Class of 1913. The income from this fund is to be used to provide assistance for one or more students in the obtaining of either an academic or professional degree. The fund shall be administered on a non-sectarian basis to such applicants as are deemed worthy by habits of character and scholarship. No promises of repayment shall be exacted but it is hoped that students so benefited will desire when possible to contribute to the fund in order that similar aid may be extended to others. Such students shall be selected from among the graduates of public high schools or public colleges in the City of New York. (1961)

The Serena Hand Savage Memorial Scholarship was established in memory of Serena Hand Savage of the Class of 1922 by her friends. The income from a fund of \$22,952 is awarded to a member of the junior class who shows great distinction of scholarship and character and who needs financial assistance. This scholarship may be renewed in the senior year. (1951)

The Constance Schaar Scholarship Fund, now totalling \$7,544, was established in 1964 by her parents and friends in memory of Constance Schaar of the Class of 1963. The Class of 1963 added their reunion gift in 1964 to this fund. (1964)

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The Frances Marion Simpson Scholarships, carrying up to full tuition and tenable for four years, were founded in memory of Frances Simpson Pfahler of the Class of 1906 by Justice Alexander Simpson, Jr., by gifts amounting to \$20,682. One scholarship is awarded each year to a member of the entering freshman class who cannot meet in full the fees of the College. In awarding these scholarships first preference is given to residents of Philadelphia and Montgomery Counties who have been prepared in the public schools of these counties or at home by parents or guardians; thereafter, under the same conditions, to residents of other counties of Pennsylvania, and, in special cases, to candidates from other localities. Holders of these scholarships are expected to repay the sums advanced to them. If they become able during their college course to pay the tuition fees in whole or in part, they are required to do so. (1912)

The Mary Williams Sherman Memorial Scholarship Fund, now amounting to \$4,150, was established by bequest of Bertha Williams of Princeton, New Jersey. (1942)

The Shippen Huidekoper Scholarship Fund of \$5,000 was established by an anonymous gift. The income is awarded annually on the nomination of the President. (1936)

The Gertrude Slaughter Scholarship Fund was established by bequest of \$19,909 by Gertrude Taylor Slaughter of the Class of 1893. The income on this fund is to be used for undergraduate scholarships, preferably to students of Greek or Latin. (1964)

The Anna Margaret Sloan and Mary Sloan Scholarships were founded by bequest of Mary Sloan of Pittsburgh. The income from this fund of \$16,858 is awarded annually to students majoring in Philosophy or Psychology. (1942)

The Cordelia Clark Sowden Scholarship Fund was established by a bequest of \$15,000 from the Estate of Helen C. Sowden. The income from this fund is used for scholarships to be awarded by Bryn Mawr College under the rules in effect at the time of the award. (1957)

The Amy Sussman Steinhart Scholarship, carrying full tuition, was founded in memory of Amy Sussman Steinhart of the Class of 1902 by her family and friends. The income from gifts now totalling \$33,652 is awarded annually to an entering student from one of the states on the west coast. (1932)

The Mary E. Stevens Scholarship Fund was given in memory of Mary E. Stevens by former pupils of The Stevens School in Germantown. The income on this fund of \$3,188 is awarded annually to a junior. (1897)

The Summerfield Foundation Scholarship was established by a gift from the Solon E. Summerfield Foundation. The income from this fund, which now totals \$10,000, is to be used to assist able students who need financial help to continue their studies. (1958)

The Mary Hamilton Swindler Scholarship was established in honor of Mary Hamilton Swindler, Professor of Classical Archaeology from 1931 to 1949, by a group of friends and former students, by gifts totalling \$8,493. The income from this fund is used for a scholarship for the study of Archaeology at Bryn Mawr College. (1950)

The Elizabeth P. Taylor Scholarship Fund, now amounting to \$10,660, was established by a bequest from Elizabeth P. Taylor of the Class of 1921. (1961)

The Ethel Vick Wallace Townsend Memorial Fund was established by Elbert S. Townsend in memory of his wife, Ethel Vick Wallace Townsend of the Class of 1908. The income on this fund, held by the Buffalo Foundation, is to be used for undergraduate scholarships. (1967)

The Trustees' Scholarships, varying in amount up to full tuition, and tenable for four years, are made available by the Trustees of Bryn Mawr College for students prepared in the high schools of Philadelphia and its suburbs. Two of these scholarships are awarded annually to candidates who have received all their preparation for entrance in Philadelphia high schools and are recommended by the Board of Public Education of Philadelphia; two are awarded annually to candidates who have received all their preparation for entrance in public schools in the suburbs of Philadelphia and are awarded by the College after consultation with the principals of the schools presenting candidates. The amount of the award varies according to the need of the applicant. (1895)

Two or sometimes three of these scholarships are supported by the income from *The Jacob Fussell Byrnes and Mary Byrnes Fund*, which was established in memory of her mother and father by a bequest of \$51,513 under the will of Esther Fussell Byrnes. (1948)

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The Julia Ward Scholarship Fund was established by a gift of \$7,075 for a scholarship in memory of Julia Ward of the Class of 1923 by one of her friends and by additional gifts from others. The income on this fund which now amounts to \$24,046 is to be used for undergraduate scholarships. (1962)

The Eliza Jane Watson Scholarship Fund was established by gifts of \$25,000 from the John Jay and Eliza Jane Watson Foundation. The income from this fund is to be used to assist one or more students as selected by the College to meet the cost of tuition. (1964)

The Elizabeth Wilson White Memorial Scholarship was founded in memory of Elizabeth Wilson White by a gift of \$7,513 by Thomas Raeburn White. It is awarded annually by the President. (1923)

The Thomas Raeburn White Scholarships, established by a gift of \$25,000, made by Amos and Dorothy Peaslee on April 6, 1964 in honor of Thomas Raeburn White, Trustee of the College from 1907 until his death in 1959, Counsel to the College throughout these years and President of the Trustees from 1956 to 1959. The income from this fund is to be used for scholarships to undergraduate students studying foreign languages, with preference given to those students who will be studying abroad. (1964)

The Mary R. G. Williams Scholarship Fund was established from the Fund for Promoting College Education for Women established by bequest of Mary R. G. Williams. The income from this fund of \$5,694 will be used for emergency grants for students who are paying their own way through college. (1957)

The Mary Peabody Williamson Scholarship was founded by bequest of \$1,000 by Mary Peabody Williamson of the Class of 1903. (1939)

The Marion H. Curtin Winsor Memorial Scholarship was established by a bequest of \$10,000 in the will of Mary Winsor, in memory of her mother. The income on this fund is to be awarded to a resident Negro student. (1960)

The Mary Winsor Scholarship in Archaeology was established by a bequest of \$3,000 under the will of Mary Winsor. The income only is to be used. (1960)

The Ellen Winsor and Rebecca Winsor Evans Memorial Scholarship Fund was established by a bequest of \$5,230 in the will of Rebecca Winsor Evans. The scholarship is to be awarded to a resident Negro student. (1962)

The Rebecca Winsor Evans and Ellen Winsor Memorial Scholarship Fund was established by a bequest of \$5,230 in the will of Ellen Winsor. The scholarship is to be awarded to a resident Negro student. (1962)

The Lila M. Wright Memorial Scholarship was founded in memory of Lila M. Wright by gifts totalling \$2,987 from the alumnae of Miss Wright's School of Bryn Mawr. (1934)

The Georgie W. Yeatman Scholarship was founded by bequest of \$1,000 under the will of Georgie W. Yeatman of Philadelphia. (1941)

SCHOLARSHIPS FOR FOREIGN STUDENTS

The Bryn Mawr Canadian Scholarship will be raised and awarded each year by Bryn Mawr alumnae living in Canada. The scholarship, varying in amount, will be awarded to a Canadian student entering either the undergraduate or graduate school. (1965)

The Chinese Scholarship comes in part from the annual income of a fund now totalling \$30,027 established by a group of alumnae and friends of the College in order to meet all or part of the expenses of a Chinese student during her four undergraduate years at Bryn Mawr College. (1917)

The Marguerite N. Farley Scholarships for foreign students were established by bequest of Marguerite N. Farley. The income from a fund of \$331,425 will be used for scholarships for foreign graduate and undergraduate students covering part or all of their expenses for tuition and residence. (1956)

The Margaret Y. Kent Scholarship Fund, Class of 1908, was established by bequest of Margaret Y. Kent of the Class of 1908. The income is to be used to provide scholarship assistance to foreign students. (1967)

The Special Trustees' Scholarship is awarded every four years to a foreign student. It carries free tuition and is tenable for four years. The scholarship for students from foreign countries was first offered by the Trustees in 1940.

The Undergraduate Scholarship, raised by the Undergraduate Association and awarded by the Association in consultation with the Director of Admissions, is awarded each year to a foreign student entering Bryn Mawr. The award is variable in amount but covers as a minimum the cost of tuition. (1938)

Prizes and Academic Awards

The following awards, fellowships, scholarships and prizes are in the award of the Faculty and are given solely on the basis of academic distinction and achievement.

The Bryn Mawr European Fellowship, value \$1,000, has been awarded each year since the first class was graduated in 1889. It is given for merit to a member of the graduating class, to be applied toward the expenses of one year's study at some foreign university. The holder of this fellowship receives in addition an *Elizabeth S. Shippen Scholarship for Foreign Study*.

The Commonwealth Africa Travelling Scholarship was established by a grant of \$50,000 from the Thorncroft Fund, Inc. at the request of Helen and Geoffrey de Freitas. The income from this fund will be used to send, for at least six months, a Bryn Mawr graduate to a university or college in Commonwealth Africa, or former British colony in Africa, to teach or to study, with a view to contributing to mutual understanding and the furtherance of scholarship. (1965)

The Maria L. Eastman Brooke Hall Memorial Scholarship was founded in memory of Maria L. Eastman, Principal of Brooke Hall School for Girls, Media, Pennsylvania, by gifts totalling \$3,310 from the alumnae and former pupils of the school. It is awarded annually to the member of the junior class with the highest general average and is held during the senior year. Transfer students who enter Bryn Mawr as members of the junior class are not eligible for this award. (1901)

The Charles S. Hinchman Memorial Scholarship was founded in memory of the late Charles S. Hinchman of Philadelphia by a gift of \$12,000 made by his family. It is awarded annually to a member of the junior class for work of special excellence in her major subject and is held during the senior year. (1917)

The Sheelah Kilroy Memorial Scholarships in English were founded in memory of their daughter Sheelah, by Dr. and Mrs. Philip Kilroy by a gift of \$5,000. These scholarships are awarded annually on the recommendation of the Department of English as follows: to a student for excellence of work in second-year or advanced courses in English, and to the student in the first-year course in English Composition who writes the best essay during the year. (1919)

The Elizabeth S. Shippen Scholarships were founded by two bequests of \$5,000 each under the will of Elizabeth S. Shippen of Philadelphia. Three scholarships are awarded annually, one to the member of the senior class who receives the Bryn Mawr European Fellowship, and two to members of the junior class, as follows: 1. *The Shippen Scholarship in Science*, to a student whose major subject is Biology, Chemistry, Geology or Physics; 2. *The Shippen Scholarship in Foreign Languages*, to one whose major subject is French, German, Greek, Italian, Latin, Russian or Spanish. To be eligible for either of these two scholarships a student must have completed at least one semester of the second-year course in her major subject. Neither may be held by the winner of the Charles S. Hinchman Memorial Scholarship. Work in elementary courses will not be considered in awarding the scholarship in foreign languages; 3. *The Shippen Scholarship for Foreign Study* (See European Fellowship, page 147). (1915)

The Gertrude Slaughter Fellowship was established by a bequest of \$50,000 in the will of Gertrude Taylor Slaughter of the Class of 1893. The Fellowship is to be awarded to a member of the graduating class for excellence in scholarship to be used for a year's study in the United States or abroad. (1964)

The Elizabeth Duane Gillespie Fund for Scholarships in American History was founded by a gift from the National Society of Colonial Dames of America in the Commonwealth of Pennsylvania in memory of Elizabeth Duane Gillespie. Two prizes are awarded annually on nomination by the Department of History, one to a member of the sophomore or junior class for work of distinction in American History, a second to a student doing advanced work in American History for an essay written in connection with that work. The income from this fund of \$1,970 has been supplemented since 1955 by annual gifts from the Society. (1903)

The Helen Taft Manning Essay Prize in History was established in honor of Helen Taft Manning, in the year of her retirement, by her class—1915. The income on a fund of \$2,600 is to be awarded as the Department of History may determine. (1957)

The Academy of American Poets Poetry Prize of \$100 has been awarded each year for five years to the student who submits to the Department of English the best poem or group of poems. The award, given by the Academy of American Poets, was first made in 1957.

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The Bain-Swiggett Poetry Prize was established by a gift of \$1,000 from Mr. and Mrs. Glen Levin Swiggett. This prize is to be awarded annually by a committee of the Faculty on the basis of work submitted. The income only is to be used. (1958)

The Hester Ann Corner Prize for distinction in literature was established in memory of Hester Ann Corner of the Class of 1942 by gifts totalling \$2,625 from her classmates and friends. The award is made annually to a junior or senior on the recommendation of a committee composed of the chairmen of the Departments of English and of classical and modern foreign languages. (1950)

The Katherine Fullerton Gerould Memorial Prize was founded in 1946 by a gift of \$1,300 from a group of alumnae, many of whom were students of Mrs. Gerould when she taught at Bryn Mawr from 1901-10. This year the fund was increased by bequest of \$2,400 by one of her former students. It is awarded by a special committee to a student who shows evidence of creative ability in the fields of informal essay, short story, longer narrative or verse. (1946)

The M. Carey Thomas Essay Prize is awarded annually to a member of the senior class for distinction in writing. The award is made by the Department of English for either creative or critical writing. It was established in memory of Miss Thomas by her niece, Millicent Carey McIntosh of the Class of 1920. (1943)

The Charlotte Angas Scott Prize in Mathematics. A prize to be awarded annually to an undergraduate on the recommendation of the Department of Mathematics was established by an anonymous gift in memory of Charlotte Angas Scott, Professor of Mathematics and a member of the faculty of Bryn Mawr College from 1885-1924. The income only from this gift is to be used. (1961)

The Anna Pell Wheeler Prize in Mathematics. A prize to be awarded annually to an undergraduate on the recommendation of the Department of Mathematics was established by an anonymous gift in honor of Anna Pell Wheeler, Professor Emeritus of Mathematics and a member of the faculty of Bryn Mawr College until her death in 1966. The income only from this gift is to be used. (1961)

The Emma Osborn Thompson Prize in Geology was founded by bequest of Emma Osborn Thompson of the Class of 1904.

Scholarships for Medical Study

From the income on the bequest of \$500 a prize is to be awarded from time to time to a student in Geology. (1963)

The Jeanne Quistgaard Memorial Prize was given by the Class of 1938 in memory of their classmate, Jeanne Quistgaard. The income on this fund of \$690 may be awarded every two years to a student in Economics. Awarded in 1965. (1938)

The Esther Walker Award was founded by the bequest of \$1,000 from William John Walker in memory of his sister, Esther Walker, of the Class of 1910. It may be given annually to a member of the senior class who in the judgment of the Faculty shall have displayed the greatest proficiency in the study of living conditions of Northern Negroes. (1940)

Scholarships for Medical Study

The following scholarships may be awarded to seniors intending to study medicine, after their acceptance by a medical school, or to graduates of Bryn Mawr intending or continuing to pursue medical education. Applications for the scholarships should be made to the Dean of the College before April 15 preceding the academic year in which the scholarship is to be held. Applications for renewal of scholarships must be accompanied by letters of recommendation from instructors in the medical school.

The Linda B. Lange Fund was founded by bequest of \$30,000 under the will of Linda B. Lange of the Class of 1903. The income from this fund will provide the Anna Howard Shaw Scholarship in Medicine and Public Health, awarded on recommendation of the President and Faculty to a member of the graduating class or a graduate of the College for the pursuit, during an uninterrupted succession of years, of studies leading to the degrees of M.D. and Doctor of Public Health. The award may be continued until the degrees are obtained. (1948)

The Hannah E. Longshore Memorial Medical Scholarship was founded by Mrs. Rudolph Blankenburg in memory of her mother by a gift of \$10,000. The scholarship is awarded by a committee of the Faculty to a student who has been accepted by a medical school. It may be renewed for each year of medical study. (1921)

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The Jane V. Myers Memorial Medical Scholarship Fund of \$10,000 was established by Mrs. Rudolph Blankenburg in memory of her aunt. The scholarship is awarded by a committee of the Faculty to a student who has been accepted by a medical school. It may be renewed for each year of medical study. (1921)

The Harriet Judd Sartain Memorial Scholarship Fund was founded by bequest of \$21,033 under the will of Paul J. Sartain. The income from this fund is to establish a scholarship which is awarded to a member of the graduating class who in the judgment of the Faculty needs and is deserving of assistance for the study of medicine. This scholarship may be continued for the duration of her medical course. (1948)

Student Employment

Students may obtain employment such as clerical and library work, typing, reading aloud, child care and waitressing through the Bureau of Recommendations, Taylor Hall. In conducting this Bureau, the College offers an employment service for permanent, temporary and part-time positions to its alumnae and former students as well as to those in college. It also offers assistance in choosing a vocation. Students registering with the Bureau will be informed of openings in the kind of work they have requested.

The Bureau also acts as a clearing house for letters of recommendation for its registrants; these letters will be sent upon request to prospective employers and other agencies for summer work for undergraduates or for full or part-time employment for alumnae and former students.

Students of foreign citizenship wishing employment should consult the Adviser to Foreign Students whose office is in Dalton Hall.

Loan Funds

BRYN MAWR COLLEGE administers two kinds of loan programs. The first consists of three funds established through the generosity of alumnae and friends of the College. Applications for loans from the three funds must be accompanied by the Parents' Confidential Statement prepared by the College Scholarship Service of the College Entrance Examination Board.

The Students' Loan Fund of the Alumnae Association of Bryn Mawr College was founded by the Class of 1890 for the use of students who need to borrow money in order to continue their college work and for the purpose of receiving contributions, no matter how small, from those who are interested in helping students to obtain an education. The fund is managed by the Alumnae Scholarships and Loan Fund Committee.

Loans may be used for any purpose approved by the committee, but not more than \$500 may be borrowed by a student in any one year, except under extraordinary circumstances. The total for four years must not exceed \$1,500. Students who wish loans may obtain from the Dean or the Alumnae Office the necessary blanks which must be accompanied by a letter of recommendation from the Dean. As a rule, money is not loaned to freshmen or to students in their first semester of graduate work.

While the student is in college no interest is charged, but she may reduce the principal of the loan if she so desires. From September 1, 1964, the interest rate is three per cent, to be paid after the student leaves college. The entire principal must be repaid within five years from the time the student leaves college at the rate of twenty per cent each year.

Contributions to the Loan Fund may be sent to the Chairman of Scholarships and Loan Fund, Bryn Mawr College Alumnae Association, Bryn Mawr, Pennsylvania.

The Mary Hill Swope Loan Fund was established June 1, 1945, by a gift of the late Mrs. Gerard Swope (Mary Hill, A.B. 1896) under the following conditions:

To assist in the education of young women irrespective of color or creed attending Bryn Mawr College, the income of the fund to be loaned to students in the following manner:

a. The following order of preference shall be followed in awarding such loans—to students coming from New Jersey, to

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students coming from Missouri, to students coming from any other location who have had not less than one year of residence at the College.

b. The loans in the above order of preference, and in the following manner, shall be awarded by the President of Bryn Mawr College, or by a committee appointed by her from time to time.

c. Applicants for loans shall be considered not only from the standpoint of academic attainment and financial need, but also from the standpoint of character and personal qualifications for deriving the greatest good from a continuation of their studies.

d. These loans shall be used primarily to enable the exceptional student to continue her studies, which otherwise would be prevented through lack of means.

e. Except under extraordinary circumstances, the maximum amount which may be borrowed annually is \$500. No interest is charged while the student is in college. From September 1, 1964, the interest rate is three per cent, to be paid after the student leaves college. The principal is to be repaid within five years from the time the student graduates or leaves Bryn Mawr at the rate of twenty per cent each year.

The Gerard and Mary Hill Swope Loan Fund was established in 1962 under the following conditions:

a. The \$200 loans required of scholarship students may be borrowed from this fund. Applications must be submitted simultaneously with scholarship applications.

b. Non-scholarship students and graduate students are also eligible to apply for loans from this fund.

c. The maximum amount which can be borrowed for any given academic year is \$500.

d. While the student is in college or graduate school no interest is charged, but she may reduce the principal of the loan if she so desires. From September 1, 1964, the interest rate is three per cent, to be paid after the student leaves college. The entire principal must be repaid within five years from the time the student leaves college at the rate of twenty per cent each year.

e. Loans are awarded by a committee consisting of the Dean of the College (*Chairman*), the Dean of the Graduate School and the Director of Admissions.

The second kind of loan program administered by the College is based on government funds made available through the National Defense Education Act (NDEA) Student Loan Program. Applications for loans must be accompanied by the Parents' Confidential Statement prepared by the College Scholarship Service of the College Entrance Examination Board. Borrowers must subscribe in writing to an oath or affirmation of allegiance to the United States of America. Under the NDEA Student Loan Program, students may borrow up to \$1,000 each year, depending on need, and all loans from this source may not exceed a total of \$5,000.

Students who, upon graduation, teach on a full-time basis in public or private non-profit elementary and secondary schools and in institutions of higher education are allowed cancellation of their debts at the rate of ten per cent for each year of teaching up to a maximum cancellation of fifty per cent of the total loan.

Alumnae Representatives

All Alumnae officers and representatives will be glad to give general information about the College.

Specific questions in regard to admissions or scholarships should be directed to the Office of Admissions, Bryn Mawr College, Bryn Mawr, Pennsylvania, 19010.

Officers of the Alumnae Association

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Bryn Mawr College

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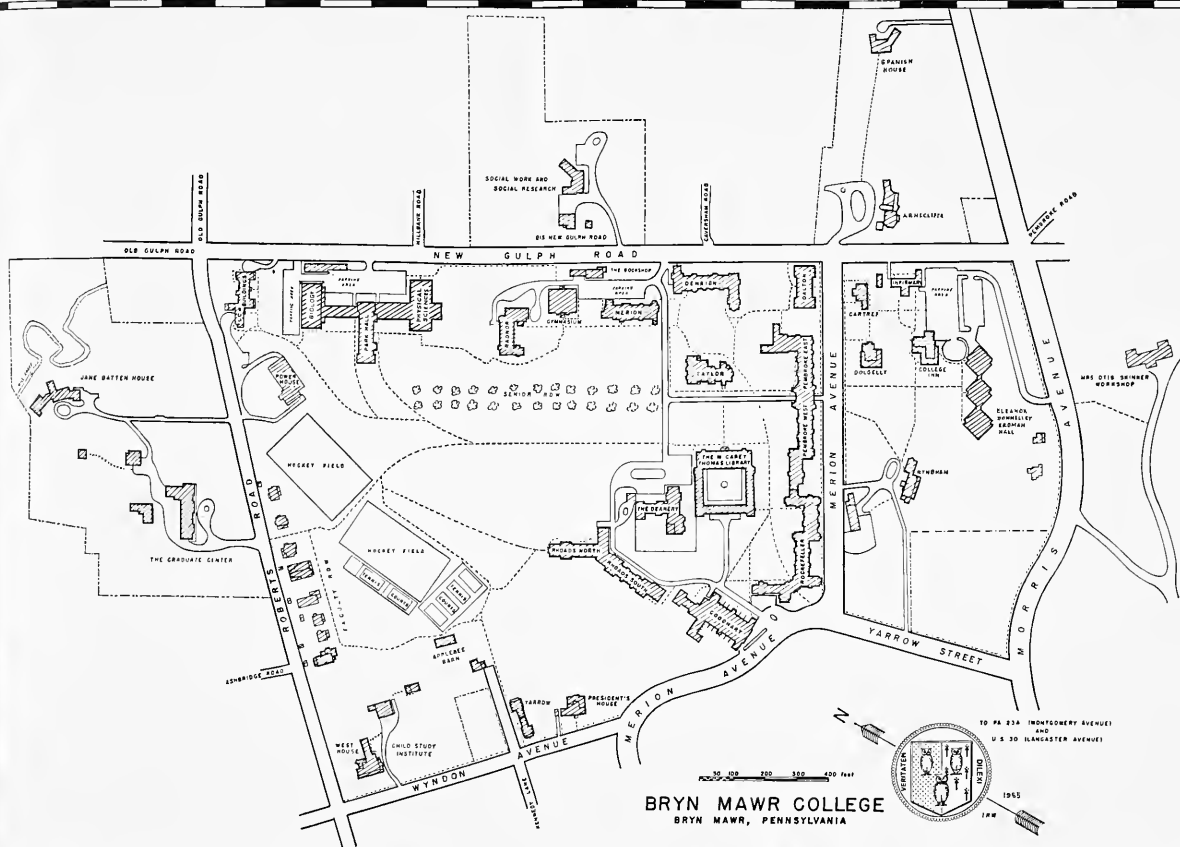
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<i>Philippine Islands</i>	Mrs. Marcial P. Reyes Jr., 14 Ilagan Street, San Francisco del Monte, Quezon City
<i>Spain</i>	Mrs. E. Teisceira de Mattos, Calle de Triana 2, Madrid
<i>Turkey</i>	Miss Suna Kili, Robert College, Bebek, Istanbul
<i>Venezuela</i>	Mrs. Oscar de Schnell, Apartado 69, Caracas

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Directions to Bryn Mawr

Bryn Mawr College is located approximately eleven miles west of Philadelphia and nine miles east of Paoli.

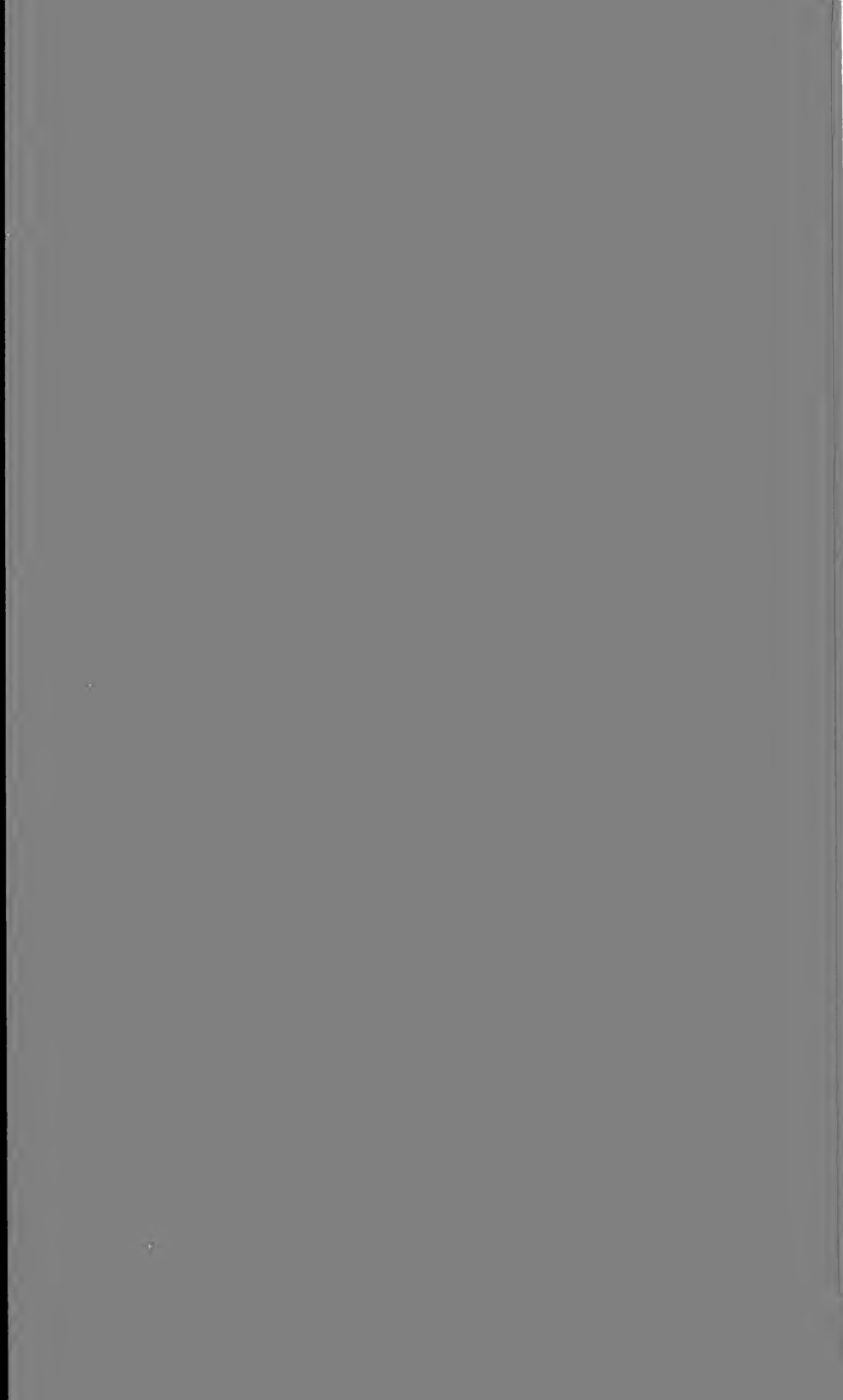
By air: From the Philadelphia International Airport take the airport limousine to 30th Street Station in Philadelphia and from there the Paoli Local to Bryn Mawr, or take a taxi directly to Bryn Mawr from the airport, a distance of 14 miles.

By automobile: From the east or west take U. S. 30 or the Pennsylvania Turnpike. From the Valley Forge Exit of the Turnpike, take the Schuylkill Expressway (Pa. #43—Interstate #76), turning right at the exit marked "Ardmore-Chester" to Pa. #23, which is 3.5 miles east of the toll gate; continue into Alternate #23 (Montgomery Avenue) which leads directly into the town of Bryn Mawr, a distance of 4 miles from the Expressway. Turn left at the traffic light at the intersection of Morris and Montgomery Avenues, continue for one block, then turn left again to Yarrow Street which leads directly to the campus.

By bus: All Greyhound buses arrive at the Philadelphia terminal at 17th and Market Streets, adjoining Suburban Station. Trailways buses arrive at 13th and Arch Streets, three blocks from Suburban Station. Take the Paoli Local from Suburban Station to Bryn Mawr.

By railroad: Connections from the east, north and south are best made from 30th Street Station, Philadelphia, on the Paoli Local of the Pennsylvania Railroad, which leaves the station every thirty minutes. Those coming by rail from the west are advised to leave the train at Paoli (rather than North Philadelphia) and take the Local from Paoli to Bryn Mawr.

To walk to the College from the Bryn Mawr Station, go one block to the traffic light at the intersection of Morris and Montgomery Avenues, cross Montgomery on to Morris and take the next left on to Yarrow Street, which leads directly to the campus.



BRYN MAWR

Undergraduate Courses

1967-68

THE GRADUATE

DEPARTMENT OF

SOCIAL WORK AND

SOCIAL RESEARCH

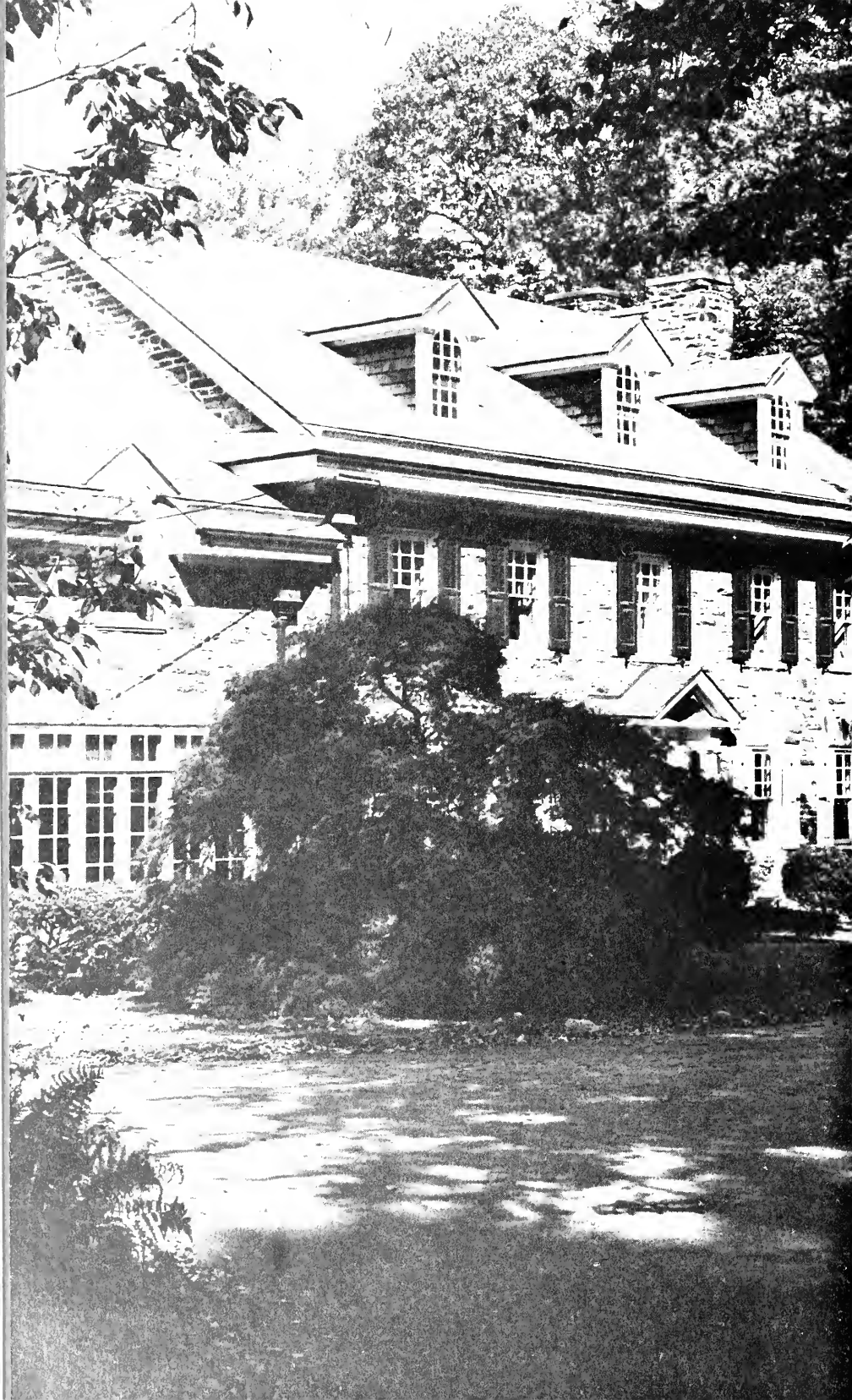
1968 / 1969

LAWR COLLEGE



Graduate Department of
SOCIAL WORK
and
SOCIAL RESEARCH
of Bryn Mawr College

1968/1969



Bulletin of the
Carola Woerishoffer
Graduate Department of
SOCIAL WORK
and
SOCIAL RESEARCH
of Bryn Mawr College

1968/1969

815 NEW GULPH ROAD
BRYN MAWR, PENNSYLVANIA

Correspondence regarding admission to the Graduate Department of Social Work and Social Research should be addressed to the Director of the Department, 815 New Gulph Road, Bryn Mawr College, Bryn Mawr, Pennsylvania, 19010.

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The Carola Woerishoffer Graduate Department of Social Work and Social Research offers a basic two-year program leading to the degree of Master of Social Service, and an advanced program leading to the degree of Doctor of Philosophy.

The Master's degree program is based upon the premise that preparation for social work practice and research requires a core of knowledge as well as skill in the application of this knowledge. A coordinated curriculum of concurrent courses and field instruction is provided.

The Doctor of Philosophy program is planned to broaden the student's knowledge of social welfare in general, and, through intensive research, to deepen his knowledge in one field in particular. The curriculum is intended for full-time study; however, a few courses may be opened for part-time study to holders of a Master's degree from an accredited school of social work.

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Anne Woodward Pusey

Alumnae Director, 1964-9

Elizabeth Pearson Horrocks

Alumnae Director, 1965-70

Margaret Tyler Paul

Alumnae Director, 1966-71

Sue Mead Kaiser

Alumnae Director, 1967-72

By invitation

Barbara Auchincloss Thacher

President of the Alumnae Association

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Officers of the College

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Katharine Elizabeth McBride, PH.D. LL.D. L.H.D. SC.D.
Office: Taylor Hall

Dean of the Graduate School:

Elizabeth Read Foster, PH.D.
Office: The Library

Director, Graduate Department of Social Work and Social Research:

Katherine D. K. Lower, PH.D.
Office: 815 New Gulph Road

College Physician:

Pearl S. Pitt, M.D.
Office: The Infirmary

Librarian:

Janet Margaret Agnew, B.L.S. M.A.
Office: The Library

Faculty and Teaching Staff

CAROLA WOERISHOFFER GRADUATE DEPARTMENT OF SOCIAL WORK AND SOCIAL RESEARCH

Katherine D. K. Lower, *Professor of Social Work and Social Research
and Director of the Department*

B.A. M.A. PH.D. University of Wisconsin

Bernard Ross, *Professor of Social Work and Social Research and
Associate Director of the Department*

A.B. University of Oregon, M.Sc. (Soc. Adm.) University of Pitts-
burgh, PH.D. University of Michigan

Jean Haring, *Associate Professor of Social Work and Social Research*

A.B. Albion College, M.A. Ohio State University, M.S.W. University
of Michigan, D.S.W. Western Reserve University

Jane C. Kronick, *Associate Professor of Social Research*

A.B. Barnard College, M.S. PH.D. Yale University

Philip Lichtenberg, *Associate Professor of Social Research*

B.S. M.A. PH.D. Western Reserve University

Jeanne C. Pollock, *Associate Professor of Social Work and Social
Research*

B.S. M.S.W. University of Pennsylvania

Martin Rein, *Associate Professor of Social Work and Social Research*

B.A. Brooklyn College, M.S.S.W. Columbia University,
PH.D. Brandeis University

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B.A. University of Minnesota, M.S.S. Bryn Mawr College

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A.B. Roosevelt University, M.S.W. University of Illinois

Edmund Sherman, *Assistant Professor of Social Work and Social
Research*

A.B. M.S.S. State University of New York at Buffalo,
PH.D. Bryn Mawr College

William W. Vosburgh, *Assistant Professor of Social Research*

B.A. Yale University, M.A. University of California at Los Angeles,
PH.D. Yale University

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D.S.W. Western Reserve University

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B.S. M.S.S. Simmons College, Third-year Certificate Columbia University

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A.B. Temple University, M.S.S. Bryn Mawr College

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B.S. M.S.W. Washington University

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A.B. Cornell University, M.S.S. Bryn Mawr College

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Nathan Zirl, *Field Instruction Consultant*
B.A. Long Island University, M.S.W. Columbia University

Rachel D. Cox, PH.D., *Professor of Education and Psychology*

Eugene V. Schneider, PH.D., *Professor of Sociology*

John Paul Brady, M.D., *Visiting Lecturer*

Harry D. Karpeles, D.S.W., *Lecturer*

Robert C. Steppacher, M.D., *Visiting Lecturer*

John H. Vanderzell, PH.D., *Special Lecturer in Political and
Governmental Processes*

History of the Department

The Graduate Department of Social Work and Social Research was opened in the fall of 1915 as a tribute to Carola Woerishoffer, a Bryn Mawr graduate of the Class of 1907. In announcing this new Department, the President of Bryn Mawr College, M. Carey Thomas, stated: "This Department will be known as the Carola Woerishoffer Graduate Department of Social Economy and Social Research in order to associate in a fitting and lasting way with Bryn Mawr College, to whose endowment she so generously contributed, the name of Carola Woerishoffer."

The Department opened with eight graduate students; no undergraduates were admitted. Under the initial plan, two-thirds of the student's time was given to the study of theory and statistics, the remaining third to "practical investigation," with a half year spent in residence in a social service institution or in a social welfare organization in Philadelphia or New York.

The course of study was planned for one, two, or three years, with three years required for the Ph.D. degree and one and two years for a certificate. The Master of Social Service degree replaced the two-year certificate in 1947.

The Graduate Department of Social Economy and Social Research was the first graduate program of social work education to be offered by a college or university. Its plan of "field work" and its inclusion of work in labor and industrial relations and community organization made it somewhat different from the other early schools of social work; it was nonetheless a program of study for social work. Under its first director, Dr. Susan M. Kingsbury, four fields of study were offered: Community Organization, Social Case Work, Industrial Relations, and Social and Industrial Investigation. Included among the organizations offering field work for students of the Department in these early days

were: The Family Society of Philadelphia, The Children's Aid, the White Williams Foundation, the Big Sister Association, the Young Women's Christian Association, the Criminal Division of the Municipal Court of Philadelphia, the Social Services Department of the University of Pennsylvania Hospital, and various settlements.

In 1919 the Department became one of the six charter members of the American Association of Schools of Social Work. In this period following World War I, social work education was rapidly changing in response to the continuous expansion of social work into new settings. The curricula of the schools, including that of Bryn Mawr, responded to these changes in a variety of ways. At Bryn Mawr, preparation for social case work was expanded and additional courses in public welfare and social legislation were offered. The emphasis on research and social investigation which was central to the early curriculum of the Department continued.

Bryn Mawr had the first doctoral program in social work education, which was soon followed by the doctoral program at the School of Social Service Administration at the University of Chicago. Today almost twenty schools offer such programs.

By 1935 Bryn Mawr was one of twenty-nine schools belonging to the American Association of Schools of Social Work, of which twenty-five were in colleges or universities and only four were independent schools. The precedent set by Bryn Mawr in 1915 in establishing social work as graduate study in an institution of higher learning has now become a requirement for accreditation by the current accrediting body, the Council on Social Work Education, successor to the American Association of Schools of Social Work.

The Department at Bryn Mawr grew gradually from eight students in 1915 to forty-two full-time students in 1955, forty years later. Since 1955 it has more than doubled in size, currently having almost one hundred full-time students. A number of factors have contributed to this expansion: the acquisition of a separate building for the exclusive use of the Department, thus making it possible to admit a larger number of students; increased Federal support for education for social work, especially scholarship aid in the form of traineeships; and the continuing support of social agencies in the metropolitan area of Philadelphia in providing field instruction opportunities.

There are more than seventy Schools of Social Work accredited by the Council on Social Work Education in the United States and Canada, and new schools are being founded each year. Although many changes have taken place both at Bryn Mawr and in social work education, the vision of those responsible for the design of the Department at its founding has been proven by experience to have been remarkably correct.

The Department now has approximately six hundred living graduates, of whom three-fourths are holders of the M.S.S. degree. Thirty-seven Ph.D. degrees have been awarded. At the time of its founding, the Department admitted only women; since the late 1930's men have been admitted, and during the last five years men have constituted an increasing percentage of the graduates.

Graduates of the Department are located in all regions of the United States and many foreign countries. Their present positions vary within a wide range of governmental and voluntary organizations and agencies and with the length of time since their graduation. They are widely represented in family services, psychiatric services, child welfare, housing and urban renewal, community mental health and mental retardation. Approximately forty-five per cent are executives, supervisors or consultants. Recipients of the doctoral degree are chiefly in teaching and research positions. Over the course of its more than fifty years, the Department's graduates have contributed substantially to leadership in both public and private social welfare programs.

Admission

The Graduate Department of Social Work and Social Research at Bryn Mawr College is open to qualified graduates in liberal arts from colleges or universities of acknowledged standing. Application for admission, to be made to the Director of the Department, should be accompanied by a copy of the student's full academic record.¹ Letters from the Dean and from two or more professors of the applicant's undergraduate college are required and will be requested by the Department. An application fee of \$10 must accompany the application.

A personal interview is usually arranged with a member of the faculty of the Department or with an appropriate person near the residence of an applicant living a considerable distance from Bryn Mawr. Admission to the Graduate School does not automatically qualify a student to become a candidate for an advanced degree. Students whose courses of study meet the requirements may, on application to the Graduate Committee, be enrolled as candidates for the degrees of Master of Social Service or Doctor of Philosophy.

Men as well as women are admitted to the Graduate School and are accepted as candidates for the degrees of Master of Social Service and Doctor of Philosophy.

Within ten days after official notice of admission to the Department of Social Work and Social Research, the enrollment fee of \$25 is to be paid to the Comptroller of Bryn Mawr College. This fee is credited to the tuition for the first semester. It is not refunded if the student fails to register.

¹ Submission of the Miller Analogies Test is required as supplementary evidence of qualifications. The student will be given instructions concerning the test after his application has been received by the Department.

TRANSFER CREDIT

Transfer credit, amounting to one year of the program for the M.S.S., may be allowed for work done at other accredited schools. Such transfer credit will not be given until the candidate has completed a semester's work at Bryn Mawr. In each case transfer credit must be recommended by the Department.

For the Ph.D. degree, candidates must be in residence in the Graduate School at Bryn Mawr at least two years (or one year for Bryn Mawr graduates). Part of the work for the Ph.D. may be done at other institutions.

Courses at the University of Pennsylvania, Graduate School of Arts and Sciences, are available to Bryn Mawr graduate students. All full-time students and such part-time students as intend to become candidates for degrees are eligible. The number of courses which may be taken at the university is limited to the equivalent of one unit per year. Under the Reciprocal Plan the procedure for registration and payment of tuition fees is the same as for students enrolled wholly at Bryn Mawr, with the exception that the student will present a letter of introduction to the Dean of the Graduate School of the University of Pennsylvania when registering there. The university charges a small general fee for the use of the library, a \$5.00 library deposit, which is refundable, and fees for late registration. Since the University of Pennsylvania opens early in September, students coming to Bryn Mawr for the first time will not be able to take courses at Pennsylvania until the second semester.

Programs and Degrees

Bryn Mawr College awards the degrees of Master of Social Service and Doctor of Philosophy in the Department of Social Work and Social Research.

THE DEGREE OF MASTER OF SOCIAL SERVICE

The program for the M.S.S. degree is designed to prepare graduates for Social Casework and Community Organization. Two academic years of full-time study are required. The degree represents the completion of a coordinated program of courses and field instruction. In the program in Social Casework, provision is made for field instruction in the following: Child Welfare, Family Welfare, Medical and Psychiatric Social Work, Vocational Rehabilitation, School Social Work, Mental Retardation and Corrections. In Community Organization field instruction is provided in Community Welfare Research and Planning, Neighborhood Organization, Urban Renewal, Intergroup Relations, Community Mental Health, and other settings.

Prerequisites. The prerequisite for the M.S.S. degree is an A.B. degree or its equivalent from a college or university of recognized standing in the United States, or a degree of certificate of the same standard from a foreign university. An undergraduate major in one of the social sciences or the humanities with some work in the social sciences is usually required, although in exceptional cases this requirement may be waived. There are no language requirements for the M.S.S. degree.

Program of Work. The basic first-year program is similar for all students except that the student selects either casework or community organization as the principal course in social work practice. The first-year courses are:

Social Casework I and II

or

Community Organization I and II

Personality Theory I and II

Social Theory I and II

Social Welfare Policy and Services I and II

Concepts in Research and Statistics I and II

Field Instruction I and II

The courses in the second year are in part determined by the principal area of practice of the student:

Social Casework III and IV

or

Community Organization III and IV

Social Agency Administration

Social Issues and Social Policy

Social Group Work

Social and Physical Factors in Health and Disease

Political and Governmental Processes

Research Seminar

Field Instruction III and IV

In addition second-year students who have had Casework I and II in the first year will take a one semester course in Community Organization in the second year; those who have had Community Organization I and II will take a one semester course in Casework.

Requirements for Degree. Candidates for the degree of Master of Social Service must have completed the two-year program of study consisting of a minimum of eighteen semester courses or the equivalent in full-year courses including field instruction. Each student's program of study may exceed this minimum. In addition, each candidate must prepare a Master's paper.

SPECIAL PART-TIME PROGRAM

It is possible for students for the Master's degree to extend the two-year program to three years. The usual pattern is to complete the first graduate year's requirements over a period of two years on a part-time basis, and to complete the second year's requirements during the third year on a full-time basis.

THE DEGREE OF DOCTOR OF PHILOSOPHY

The curriculum for the Ph.D. program provides a program of study from which a person may enter one of many careers, depending upon the changing needs and opportunities in the field and the interests and capabilities of the individual. Preparation for research and teaching are central to the goals of the program. Development of a variety of research competencies is encouraged; preparation for teaching in all areas of the social work curriculum, whether for graduate or undergraduate curricula, is also provided. Study for practice, whether in casework, community organization, administration, research or development of social policies and programs, emphasizes theoretical work.

The candidate for the Ph.D. degree should have ability of a high order, intellectual curiosity and critical judgment, independence, a broad general education, a Master's degree and experience in social work, and the determination needed to carry through an exacting program.

The program is planned to broaden the student's knowledge of social welfare in general and, through intensive research, to deepen his knowledge in one field in particular. The curriculum includes the following areas of study:

- Social Welfare
- Theory in Social Work Practice
- Social and Behavioral Sciences
- Social Research

Preparation in these four areas is implemented through required courses in each of the areas, accounting for about one-half of the program; electives pertinent to individual interests of students account for the other half. Electives may be taken in other departments within the College or at the University of Pennsylvania; and special experiences are directed toward specific career goals, including teaching assistantships and research assistantships. Candidates select a major field within one of the four areas of the curriculum and allied fields from the other areas. Qualified students may participate in various phases of research in social work under the direction of members of the faculty, engaged in a variety of research studies.

General Requirements. The general requirements for the Ph.D. degree are:

1. An undergraduate preparation in major and allied fields which is satisfactory to the Department.
2. A course of study requiring a minimum, which will usually be exceeded, of three full years of graduate work in major and allied fields; two of these years (or for graduates of Bryn Mawr College, one) must be spent in the Graduate School of Bryn Mawr College. Candidates are strongly advised to complete at least seven units of graduate work.
3. The acceptance of the student as a candidate by the Director of his or her work, by the Department and by the Graduate Committee.
4. A reading knowledge of French (or in special cases another modern foreign language approved by the Department) tested by a written examination in the translation of texts in the field of the major subject.
5. A working knowledge of statistics. The specific statistics requirement may be met either by passing a written examination or by taking courses in statistics.
6. A satisfactory Preliminary Examination. This examination is intended to test the candidate's general knowledge in the major and allied fields rather than familiarity with particular courses.
7. The preparation of a dissertation judged to be a contribution worthy of publication. The dissertation must represent independent investigation in the field covered by the major subject. It must contain new material, results or interpretations.
8. A satisfactory Final Oral Examination in the special field of the major subject in which the dissertation has been written.
9. The publication of the dissertation in whole or in part in accordance with the general regulations of the Graduate School.

SUMMER WORK

Bryn Mawr has no summer session. Occasionally, at the invitation of members of the faculty, arrangements can be made for graduate students to continue research during the summer. The amount of

credit for the work and the tuition fee to be charged depend upon the particular circumstances. Students should register for such work at the Graduate Office early in June.

REGISTRATION

Every Graduate Student must register for courses at the office of the Dean of the Graduate School during the registration period listed in the College Academic Calendar. Permission to make any change in registration must be received from the Dean of the Graduate School.

Only courses given in the Department of Social Work and Social Research are described in this Bulletin. Unless otherwise noted, courses are for *one* semester. Description of other courses may be found in the Calendar of the Graduate School.

Students wishing certification to outside agencies must complete a form to be signed also by the Director of the Department and deposited in the Office of the Dean of the Graduate School.

GRADING

Two grades are given for graduate work, Satisfactory and Unsatisfactory. Occasionally extensions may be given for the completion of work. However, there will be no extension beyond November 1st of the academic year following that in which the work was due. After November 1st the work will be graded Unsatisfactory or the term Incomplete will remain permanently on the record.

EXCLUSION

The College reserves the right to exclude at any time students whose academic standing is unsatisfactory or whose conduct renders them undesirable members of the college community. In such cases fees due or paid in advance will not be refunded or remitted in whole or in part; fellowships and scholarships will be cancelled.

Courses of Study

PROGRAM FOR THE MASTER OF SOCIAL SERVICE

The Social Services

Social Welfare Policy and Services I

The organization and growth of social welfare as a major social institution is examined from an historical and philosophical perspective. The organization and distribution of social services is examined at the federal, state, and local levels. Attention is given to the influence of recent economic, social, and demographic trends upon social welfare policy.

Social Welfare Policy and Services II

The nature and scope of contemporary social problems such as poverty, dependency, delinquency, and urban deterioration are analyzed. Competing and alternative theories concerning etiology and modes of intervention are considered. The impact of present welfare services on the reduction of social problems is examined.

Social Issues and Social Policy

Issues in contemporary social policies are examined by specialists in law, economics, public health, welfare and social work.

Human Behavior and the Social Environment

Personality Theory I

From personality theory fundamental ideas are presented which are considered to be especially pertinent to the various practices of

social workers. The course leans heavily upon psychoanalytic theory. Emphasis is upon general principles connected with the determination of the shape and content of an individual's social functioning.

Personality Theory II

This course extends the work of Personality Theory I. Study in personality theories other than psychoanalytic theory is included here.

Social Theory I

This course introduces the student to the social and cultural context of the field of social welfare and the practice of social work. Starting with a general consideration of social organization and institutional arrangements of industrial society, it covers complex organizations, occupational groups, and role relationships and social stratification. Special attention is paid to the profession of social work as an example throughout.

Social Theory II

A continuation of Social Theory I, this course focuses upon client systems and social change. Starting from a review of concepts of norms and values, it develops critically a number of theories of deviant behavior, with special attention to the role of the group. It proceeds to social units which form social work client systems: the family, the small group, the community and traditional societies. The course concludes with a consideration of theories of social change.

Social and Physical Factors in Health and Disease

Attention is paid to special topics in health, public health, genetics, psychology and psychiatry that are germane to the functioning of individuals.

Political and Governmental Processes

A course based on selected materials from political science designed to extend the student's understanding of functions and prerogatives of local, state and federal governments. A major focus is the contributions of political science as discipline and theory to community welfare planning and social action.

Social Work Practice

Social Casework I

This is an introductory course focusing on the generic processes in social work as applied to casework. Emphasis is placed on the basic principles and concepts relevant to the casework relationship, study and diagnosis. Methods and processes are illustrated through the use of case material.

Social Casework II

Continuation of Social Casework I with further consideration of diagnostic formulation and differential emphasis of agencies in social casework treatment.

Social Casework III

An advanced casework course building on the basic study, diagnosis and treatment principles of the two preceding courses. Emphasis is on differential approaches to treatment as determined by differential psycho-social diagnosis. Cases from different fields of practice are used to give opportunity for examination of general principles as well as of specific requirements of different fields. Current issues and trends in social casework are discussed.

Social Casework IV

A continuation of Casework III in which students use cases from their own practice to examine the relationship between differential diagnosis and treatment, and the role and responsibilities of the social caseworker.

Introduction to Social Casework

This course is designed to introduce community organization students to the basic principles and practice of social casework.

Community Organization I

An introductory seminar on Community Organization practice in social work. Case materials, including student reports on field experiences, are utilized to examine values, concepts and principles of Community Organization. Emphasis is on the relationship of professional practice to the goals, structure and approaches of agencies concerned with community improvement and health and welfare planning. Historical and current trends in agencies are considered.

Community Organization II

A continuation of Community Organization I. The multiple roles and techniques used by the Community Organization practitioner are analyzed. Attention is given to emerging aspects of practice and to the application of various relevant theories in areas such as organization, social change and decision-making.

Community Organization III

A seminar on community welfare planning. Study of the functioning of health and welfare planning agencies, including analysis of structure and of the relation of physical and social planning. Current practices and issues concerned with auspices, financing, priorities, citizen participation, accountability and evaluation are considered. Community development is considered in relation to community organization.

Community Organization IV

A seminar on goals, values and theories reflected in practice, with emphasis on content related to field instruction placements of students enrolled. Generic and specific elements of community organization practice are identified in welfare planning and federated financing agencies, housing and urban renewal programs, public health and mental health settings, intergroup relations commissions, neighborhood agencies and other settings.

Introduction to Community Organization

This course is designed to familiarize casework students with the field and practice of community organization. Emphasis is placed on the contributions of casework practitioners and direct service agencies to community improvement and community welfare planning.

Social Group Work

Introduction to principles and practice of social group work as a basic social work method. Emphasis on the role and function of the professional person in relation to groups and their goals, the needs and interests of individual members, and the place of groups in the wider social setting of agency, neighborhood and community.

Administration of Social Agencies

A seminar concerned with the social agency as a social institution, its organization and administrative processes. Subjects discussed include

policy formulation, decision-making, management functions, the role of the staff in administration, principles in personnel management, budgeting and public relations.

Field Instruction I and II

Application of basic social work principles and concepts in the field setting. Field instructors carry responsibility for facilitating the student's learning and integration of the total curriculum. Taken collaterally with Casework I and II or Community Organization I and II. Requirement: two days per week, first semester; three days per week, second semester.

Field Instruction III and IV

Taken collaterally with Casework III and IV, Community Organization III and IV. Requirements: three days per week, first and second semesters.

Social Research

Concepts in Research and Statistics I

The goals of this course are to acquaint the student with the terminology and basic concepts of statistics within the context of research design and to equip him with a beginning competence in the statistical analysis of data.

Concepts in Research and Statistics II

This course extends and integrates the knowledge of the research process gained during the first semester. It aims to equip the student to evaluate research from both a scholarly-critical standpoint and from the perspective of practice and application. The student is also familiarized with the organization and administration of research and its place as a staff function in the field of Social Work.

Research Seminar (two semesters)

A Master's paper is required of all candidates for the M.S.S. degree. This may be an individual or a group project; it usually requires the collection, analysis and presentation of primary data. Work on group projects is coordinated in a non-credit research seminar which meets as needed.

PROGRAM FOR THE DOCTOR OF PHILOSOPHY

Social Welfare

History and Philosophy of Social Welfare I

Social welfare in perspective, with emphasis on social and economic changes as reflected in developments of social welfare programs. The development of social policy is examined in historical perspective. Special emphasis is given to the effects that different stages of industrial development have on the assumptions and character of welfare programs.

History and Philosophy of Social Welfare II

The course will examine social welfare programs which deal with income transfers, housing, public welfare, health, mental health, and poverty. Special attention will be given to the philosophical assumptions, historical developments and implementation of welfare legislation. Recurrent policy issues in a number of fields will be studied.

Community Mental Health

Attention is directed to an historical study of concern with mental health and mental hygiene and to current directions in community mental health services and programs. Study is made of varieties of mental health services, roles and practices in the past and present; the place of these in society; and the philosophical and ideological principles embodied in them.

Social Work Practice

Advanced Casework Theory

A seminar in which the scientific base of casework methods and processes will be examined. Emphasis will be placed on the relationship between knowledge and current assumptions in practice; gaps in knowledge; and the present stage of theory building in social casework.

Theory in Community Organization

This seminar undertakes to provide a critical analysis of the issues and trends in the conceptualization of community organization and the current status of community organization theory. Applications to three arenas of practice are made: community development and neighbor-

hood organization; interagency program planning, coordination and financing; and more comprehensive social planning in concert with physical and economic planning.

Social Administration

A seminar concerned with problems of organization, management and human relations in administration with special reference to the relation of administration to policy formulation and the functions in the decision-making process. The approach is analytical rather than descriptive or technical. Discussions and readings are based primarily on case studies drawn from various fields of administration. Participants will each prepare administrative case studies.

Supervision in Social Work

This course will relate basic learning theory to the supervisory method. Emphasis will be placed on identifying learning patterns in the student or staff supervisee and the appropriate selection of educational experiences.

This course is designed primarily but not exclusively for field instructors of students or supervisors of staff with limited supervisory experience. It may be taken for credit at the advanced level by meeting additional requirements.

Social and Behavioral Sciences

Personality Theories and Social Work Practice

Major theories of personality are examined according to their central concepts and the problems with which they are concerned. Comparison of theories is effected through the study of special issues bearing upon social work practice. Recent research efforts are used to show the direction the theories are taking.

Advanced Psychoanalytic Theory

Examination of psychoanalysis as a personality theory is made. Selected topics in psychoanalytic theory are studied, with special emphasis on psychoanalysis as ego psychology.

Social Change

An examination of major sociological theories of social change with special attention to social system analysis. Theories of planned change are examined through case studies.

Concepts of Mental Health

Exploration is made of the problems whose resolution depends upon an adequate theory of mental health, the scientific issues posed, the varieties of concepts developed, and intensive evaluation of selected theories of mental health. The social implications of each are traced.

Formal Organizations

Structure and process in large-scale organizations. Starting from basic theories of social organization, the course focuses upon those organizations which are planned to coordinate the efforts of large numbers of persons to accomplish specific goals. Leadership, organizational pathologies and the role of the individual are considered.

Social Research

Social Statistics

The objectives are to acquaint the student with the techniques and measures most commonly used in current research, to make the student aware of the assumptions and conditions under which statistical operations are clearly meaningful; and to develop discrimination in the application and interpretation of statistical tests and techniques.

Advanced Research

Study of contemporary methodological approaches to problems in social and behavioral research with application for social work. Intensive coverage of survey research design, case study and clinical method, and design of social experiments.

Current Research in Social Work

Review and critical evaluation of representative classic and contemporary research studies in social work and related fields with respect to the function of social work research, problem formulation and research methodology, and trends of social work research as related to practice and theory.

Demographic Analysis

Demographic characteristics of the United States and their analysis are studied with principal attention to the components of demographic change and their implications for social welfare. Students present original analyses of trends in contemporary population characteristics and their distribution in the United States.

Supervised Unit in Research

Upon invitation of a member of the Department, a student may take a supervised unit in research.

Among the faculty of the Department a variety of research interests and competencies is represented. Some of this faculty research has provided opportunities for research experience for doctoral students and will continue to do so. The areas of research in which members of the faculty have been engaged includes: adoptions; community welfare planning; family life and economic dependency; mental health in public welfare; and evaluation of a family service agency.

SEMINARS AND COURSES IN RELATED DEPARTMENTS IN THE GRADUATE SCHOOL

Courses in related departments of the Graduate School may be elected as part of the student's program with the permission of the Department. Examples of such courses are:

Economics

- Comparative Economics Systems
- Economics of Underdevelopment
- Theories and Problems of Economic Change

Education and Child Development

- Advanced Clinical Evaluation
- Problems of Child Development
- Adolescent Development
- Developmental Psychology
- Research and Measurement in Education
and Child Development
- The Social Psychology of the School

Political Science

- American Constitutional Law
- Topics in Urban Affairs
- World Community and Law
- Law, Policy and Personality
(advanced undergraduate course)

Psychology

Comparative Psychology

Learning

Sensory Processes and Perception

Sociology

Sociological Theory

Social Stratification

Industrial Sociology

Race Relations

Graduate courses at the University of Pennsylvania are also available for graduate students of Bryn Mawr College. For information regarding the reciprocal arrangement with the University, see the section under Admissions.

Field Instruction

Field Instruction is an integral part of the curriculum for the Master of Social Service degree. A placement is arranged for each student in an agency of good standards. Field Instruction is offered in casework and community organization. The purpose of the field experience is to provide the opportunity for the student to apply the knowledge gained in class and thus to deepen his knowledge and develop skill in its use. It is planned jointly by the agency and the Department in such a way as to give content, sequence and progression in learning. Field instruction runs concurrently with the academic program in order to insure an integration of the content of the two. Except in unusual circumstances the student is placed in a different agency during each year of field instruction.

In a typical program, field instruction for first-year students consists of approximately fourteen hours per week from October through January and twenty-one hours per week from February to May; for second-year students, it consists of twenty-one hours per week for each of the two semesters. Individual arrangements may occasionally be made on the basis of agency and student needs. Field instruction begins approximately ten days after the opening of the academic year.

Students are placed in a number of agencies in the Philadelphia metropolitan area. In most of these agencies, two or more students are placed with agency staff as field instructors. In other agencies a unit of students is under the direction of a field instructor appointed by the Department. Currently, such field instruction units provide field experience in:

- Child Welfare
- Corrections
- Mental Retardation
- Psychiatric Social Work
- Public Assistance
- Rehabilitation
- School Social Work

Students in casework are placed in the following agencies:

Association for Jewish Children
Child Care Service of Delaware County
Child Study Center of Philadelphia
Child Study Institute of Bryn Mawr College
Children's Aid Society of Pennsylvania
Eastern Pennsylvania Psychiatric Institute, Adult Unit
Eastern Pennsylvania Psychiatric Institute, Children's Unit
Family Service of Delaware County
Family Service of the Main Line Neighborhood
Family Service of Philadelphia
Hahnemann Hospital, Dept. of Psychiatry
Irving Schwartz Institute for Children and Youth
Jefferson Medical College Hospital, Social Service Department
Lankenau Hospital, Child Guidance Clinic
Montgomery County Mental Health Clinics, Inc.
Norristown State Hospital, Social Service Department
Pennsylvania Corrections Institution
Pennsylvania Hospital, Dept. of Sick and Injured
Philadelphia County Board of Assistance
Philadelphia General Hospital, Dept. of Psychiatry
Sleighton Farm School for Girls
Southern Home for Children
St. Christopher's Hospital, Child Psychiatry Clinic
St. Christopher's Hospital, Handicapped Children's Clinic
Temple University Hospital, Department of Social Work

Community organization field instruction settings include the following:

Bucks County Planning Commission

Community Service Council of Delaware

Health and Welfare Council, Inc., Delaware County District

Health and Welfare Council, Inc., Philadelphia

Human Relations Commission, City of Philadelphia

The Lighthouse

Mental Health Association of Southeastern Pennsylvania

Neighborhood Renewal Program, Department of Licenses and Inspections, City of Philadelphia

Office of the Development Coordinator of the City of Philadelphia

Office of Planning, Evaluation and Research, Department of Public Welfare, Commonwealth of Pennsylvania

Pennsylvania Department of Public Welfare, Southeastern Regional Office

Pennsylvania Hospital, Community Mental Health Center

Redevelopment Authority of Philadelphia

School District of Philadelphia, Office of the Deputy Superintendent for Planning

Urban League of Philadelphia

Fees

The tuition fee for graduate students is \$1500 a year, payable one half early in the first semester and the other half early in the second semester.

For students registered for part-time work the fee for each course, seminar, or unit of supervised work is \$250 a semester for doctoral courses and \$190 for Master's courses.

Fees for auditors are the same as for student's registered in courses for credit.

All students taking courses which require field instruction are charged a fee of \$10 a semester for each such course taken during the academic year. In addition, students are required to meet their traveling and incidental expenses while working in the field during the academic year and vacations.

Ph.D. candidates who have completed a minimum of 6 academic units, of which at least one must be a unit of supervised work on the dissertation, and who are continuing independent work on their dissertations either in the vicinity of the Graduate School or in other places must retain their enrollment and degree candidacy by registering for one or more units each semester or by paying a continuing enrollment fee of \$25 each semester.

The graduation fee for Doctors of Philosophy and Masters of Social Service is \$20.00.

Students whose fees are not paid before November 15th the first semester and before March 15th in the second will not be permitted to continue in residence or to attend their classes. No reduction of the tuition fee will be made after classes have begun on account of absence, withdrawal, dismissal, or for any other reason except involuntary service in the Armed Forces of the United States.

The Office of the Recorder will supply on request one transcript of the record of each graduate student free of charge. For additional transcripts a charge of \$1.00 each will be made.

SUMMARY OF EXPENSES FOR THE ACADEMIC YEAR

Application Fee	\$ 10
Tuition Fee	1,500
Residence Fee at Graduate Residence Center (including health service)	1,000
Dispensary Fee	25
Fee for Field Instruction Manual, Research Manual and other materials	5
Field Instruction Fee	20
Graduation Fee	20
Charge for Microfilming Ph.D. Dissertation	30
Room on campus Christmas and spring vacations (\$1.50 per day — maximum 30 days)	45
Expenses, Christmas and spring vacations, commuting to field instruction, books	variable

EXCLUSION

The College reserves the right to exclude at any time students whose academic standing is unsatisfactory or whose conduct renders them undesirable members of the college community. In such cases fees due or paid in advance will not be refunded or remitted in whole or in part; fellowships and scholarships will be cancelled.

The Graduate Residence Center

Residence for forty-five graduate students, men and women, is provided in the Graduate Residence Center which lies at the north end of the campus. Meals and health service are included in the residence charge. There is a separate bedroom for each student, furnished except for rugs and curtains; bed linen, including blankets, is provided but students should bring towels. Because of college fire regulations, smoking is not permitted in the bedrooms but there is a smoker on each floor. The dining room, which seats sixty, is open to students living outside the Center who wish to lunch or dine there.

Application for a room should be made as early as possible. A room contract, which will be sent upon request, must be signed and returned with a deposit of ten dollars to the Dean of the Graduate School. The deposit will be deducted from the residence fee; it will not be refunded under any circumstances.

A student who has reserved a room in the Graduate Residence Center will be held responsible for the residence charge unless notice of withdrawal is sent in writing to the Dean of the Graduate School before September 1.

The regular charge for residence (room, board and health service) for graduate students is \$1000 a year, payable one half early in the first semester and the other half early in the second. Allowance cannot be made for dietary restrictions.

Residence in the Center is for the academic year only — from the opening of College in the fall until Commencement Day. One of the residence halls is kept open during Christmas and spring vacations where students may stay at a charge of \$1.50 a day (meals not included). Baggage will be accepted at the College after September 5. It should be sent prepaid, addressed to the Graduate Residence Center, and marked with the owner's name.

Fellowships, Scholarships and Traineeships

A variety of financial resources is available for full-time students in the Department of Social Work and Social Research. The terms of the various awards differ and will be discussed with the applicant at the time of the admission interview. Both merit and need are factors to which consideration is given in making certain awards. The Department makes every effort to locate the financial aid best suited to the applicants' needs. Application for awards other than those of Bryn Mawr College may be made up to May 1st preceding the academic year for which they are desired.

BRYN MAWR FELLOWSHIPS AND SCHOLARSHIPS

The Department of Social Work offers the Carola Woerishoffer Fellowship, value \$3000, and one or two scholarships, value \$2300. The fellowship is open to women who have completed a full year of graduate work and is intended for a student in the doctoral program. Scholarships are open to both men and women who hold the A.B. degree or its equivalent from a college or university of recognized standing.

Application from citizens of the United States and Canada should be made to the Director of the Department and must be filed complete not later than February 15. The documents are the same as for admission. Awards are announced in late March and recipients should signify their acceptance or refusal by April 15. Applications from foreign students must be received not later than January 25. Test of English as a Foreign Language score must be included. Therefore this test, or an appropriate substitute, must be taken in October. Awards will be announced in March. There are at present no awards other than Graduate Assistantships available for foreign men students.

Women holders of these scholarships in their first year of graduate work at Bryn Mawr are required to live at the Graduate Residence Center. Others may elect to do so. The stipend covers tuition and part of the residence charges. Scholars who have had a full year at Bryn Mawr may live off campus. In that case tuition and dispensary fees will be deducted from the stipend and the balance paid the student.

The College has several scholarships of \$2300 which are open to men or women for study in any department.

Tuition scholarships, \$1500, are available to men and women whose homes are in the Philadelphia area, to men and women interested in preparation in the field of Community Organization, and to other qualified students.

TUITION GRANTS FOR PART-TIME STUDENTS

A grant from the Samuel S. Fels Fund for three years, beginning in 1967, has doubled the funds available to assist men and women students who are unable to undertake full-time graduate work. Awards will be made, primarily for tuition, on the basis of high academic standing. Applications are due April 1 for awards to be made in the late spring and September 1 for those to be made in the early fall. Forms are available at the Graduate Office.

GRANTS-IN-AID

Contributions to the Alumnae Fund by former graduate students have placed at the disposal of the Graduate Scholarships Committee a small fund for grants-in-aid. These grants, not to exceed \$400, are given on the basis of need to holders of Bryn Mawr College scholarships to help them meet college expenses. Application forms may be obtained from the Graduate Office; they should be submitted by April 1 for spring awards and by September 1 for awards made in the fall.

UNITED STATES DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

The National Institute of Mental Health, the Vocational Rehabilitation Agency and the Children's Bureau of the United States Department of Health, Education and Welfare make available to the Department funds for traineeships which cover tuition and an annual stipend to be paid to the student. These traineeships vary with the year of

study and the particular programs for which they are provided. The career goals of the student are an important factor in the awarding of these traineeships to individual students. For new students, application for such traineeships should be made at time of application for admission. No application form for these traineeships is necessary. Applicants should, however, state their career goals and their financial needs at the time of application. These may then be discussed during the admission interview.

Doctoral Program

The National Institute of Mental Health of the Public Health Service provides funds to the Department for advanced traineeships for students planning to specialize in some aspect of mental health. For applicants with a minimum of three years of experience, these traineeships provide tuition, a basic stipend of \$3600 and dependency allowance within specified limits.

The Children's Bureau provides advanced traineeships to students for leadership in the field of child welfare, for research, administration, social policy and teaching. These traineeships provide tuition, a basic stipend of \$3200 plus a dependency allowance.

The Vocational Rehabilitation Administration, as well as the NIMH, provides pre-doctoral research fellowships, application for which must be made by the student directly to the agency. These fellowships provide varying amounts, depending upon the year of study and the number of dependents.

TEACHING ASSISTANTSHIP

Bryn Mawr College provides Teaching Assistantships with a stipend of \$2100-2300 including tuition without fee. The Assistant will be expected to carry out assignments in the teaching program limited to twenty hours a week or one-half time.

RESEARCH ASSISTANTSHIP

Susan M. Kingsbury Research Assistantship, a research assistantship of the value of \$2200 with remission of tuition, will be granted to an advanced student, preferably a candidate for the degree of Doctor of Philosophy, who from either training or experience has knowledge of methods and techniques in social research. The holder of the Assistant-

ship will give one-half time to the research of the Department, and one-half time to study and is not permitted to hold any other paid position.

Master's Degree Program

The National Institute of Mental Health provides funds to the Department for traineeships for students with career goals in mental health. These traineeships are \$1800 plus tuition for first year students and \$2000 plus tuition for second year students. These traineeships are available for psychiatric social work, school social work and for a special program in family and child welfare.

The Vocational Rehabilitation Administration makes available to the Department funds for a varying number of traineeships for students interested in careers in rehabilitation. These traineeships provide \$1800 plus tuition for first year students and \$2000 and tuition for second year students.

Traineeships are also awarded by the Department from funds made available by the Children's Bureau. Preference is given to first or second-year students entering the field of social work with an interest in child welfare. These traineeships provide tuition and a stipend of \$2000. Traineeships are also available for work with mentally retarded children and their families. These provide tuition and a stipend of \$2500.

AGENCY FELLOWSHIPS AND SCHOLARSHIPS

Scholarships in social work practice are offered to qualified men and women by a variety of local agencies. They range up to \$2800. Awards depend upon acceptance by the Department and, in some instances, an agreement concerning one year's employment following graduation.

Agency awards are based upon financial need and professional promise for social work. Some of these awards are made by the Department.

GRANTS FROM THE COMMONWEALTH OF PENNSYLVANIA

The Commonwealth of Pennsylvania has several plans for financing social work education through different offices of the Department of Public Welfare, including Mental Health, Public Assistance and the Office for Children and Youth. A commitment to the state program through which the student is financed is required. Early application

is desirable. The Department will assist the student in this at the time of the admission interview. Information may also be obtained from the Department of Public Welfare of the Commonwealth of Pennsylvania, Harrisburg, Pennsylvania. Other states have similar educational programs.

GRADUATE PRIZES

The Susan B. Anthony Memorial Prize, value \$500, commemorating the great work of Susan B. Anthony for women, was founded by her friend, Anna Howard Shaw, and her niece, Lucy E. Anthony. It is offered every two years to a graduate student at Bryn Mawr College who has published or submitted in final form for publication the best study dealing with the industrial, social, economic or political position of women. The award is made by a committee of which the President of the College is chairman.

The Hertha Kraus Award, value \$50, is offered annually to a student of the Graduate Department of Social Work and Social Research. This award was established by the Alumni Association of the Department in honor of Hertha Kraus, a member of the faculty of the Department for over twenty-five years. It is presented to the students who, in the opinion of a special committee established for this purpose, has written the best paper of the year on a subject relating to community organization, history of social welfare, international social welfare or social welfare administration.

The Susan M. Kingsbury Grant in Social Research, value \$300, is awarded every third year on the recommendation of the Director of the Graduate Department of Social Work and Social Research to advanced students, men and women, preferably candidates for the degree of Doctor of Philosophy.

Loan Funds

The Bertha Goldstein Memorial Loan Fund, established in honor of Bertha Goldstein, A.B. 1938 and M.A. 1939, is a revolving fund from which, upon recommendation of the Department of Social Work and Social Research, a limited number of loans, not exceeding \$150, may be made to graduate students of Social Work and Social Research. Loans are made without interest and must be repaid within five years.

The Ethel Rupert Memorial Loan Fund was established in 1951 by the friends of Ethel Rupert to commemorate her long interest in the preparation of personnel in public welfare. It is a revolving fund from which small loans are made to students in the Department of Social Work and Social Research, at the discretion of the Director of the Department.

The Rachel Pflaum Memorial Loan Fund, established in 1926 in memory of Rachel Pflaum, and transferred to Bryn Mawr College in 1951, is a revolving fund from which loans, not to exceed \$200, for tuition purposes may be made to students who are recommended by the Director of the Department.

The Carola Woerishoffer Club Fund is a small revolving fund from which loans may be made to students in the Department of Social Work and Social Research.

National Defense Student Loan Program — NDEA Title II. Loans up to \$2500 a year are available to qualified graduate students under this Title. They are open to half-time as well as full-time students. Partial loan cancellation is offered to prospective teachers. For information write to the Dean of the Graduate School. These applications should be submitted by April 1 for spring awards and by September 1 for awards to be made in the fall.

REGULATIONS FOR FELLOWS AND SCHOLARS

All holders of fellowships and scholarships are required to carry a full program of graduate work. Holders of fellowships are expected to give as much as an hour and a half a week to special work for their departments, and are not permitted to accept any other appointments. Holders of scholarships may, with the approval of the Director of the Department, make their own arrangements to do a limited amount of paid work.

The Library

The M. Carey Thomas Library and nine departmental libraries of Bryn Mawr College contain over 330,000 books and regularly receive more than 1200 periodicals as well as many scholarly series. The Rare Book Room houses the Marjorie Walter Goodhart Medieval Library of incunabula and the unusual Dillingham Collection of books on early Latin-American exploration in addition to other rare items. The Library has generous hours of opening throughout the year. Books are readily accessible on open stacks and in seminar rooms; individual carrels are available for some graduate students.

The main entry cards of the Haverford College Library are in the Bryn Mawr catalogue, thus bringing approximately 600,000 entries into one file. The Library is a member of the Union Catalogue of Pennsylvania, which locates nearly 7,000,000 volumes in the Philadelphia area and throughout the state, including the libraries of the American Philosophical Society, the Library Company of Philadelphia, the Historical Society of Pennsylvania, the Academy of Natural Sciences, the Free Library of Philadelphia, the Franklin Institute, the College of Physicians, the Rosenbach Foundation, the University of Pennsylvania and Temple University.

The Department of Social Work and Social Research has its own Library and Reading Rooms including a collection of books made available on permanent loan from the M. Carey Thomas Library as well as periodicals and pamphlet material in the field of social welfare.

A Computing Center with an IBM 1620 computer on the Haverford campus and auxiliary record equipment at Bryn Mawr is under joint sponsorship of Haverford and Bryn Mawr Colleges and is open to students and faculty of both colleges.

Health

Certain Health Requirements must be met by all entering students. The medical examination blank provided by the College must be completed and filed at the time of application. After acceptance every student must also file a physician's certificate stating that he or she has been vaccinated against smallpox within three years of entrance, and that he or she exhibited a typical or immune reaction to this vaccination. Students who do not certify to vaccination are vaccinated at the time of their entrance and charged a fee of one dollar. There is no exception to this rule.

Students applying for residence in the Graduate Residence Center must also submit reports of ophthalmological examinations signed by an appropriate physician; evidence of immunization against diphtheria and tetanus, by toxoid, and against poliomyelitis within a year of entrance. A report of a Mantoux test is also required; if this is positive, the results of a chest X-ray must be submitted. The forms for these various certificates are supplied by the Office of the Dean of the Graduate School and are to be returned to the same office. If they have not been received by the time the student arrives in Bryn Mawr, the tests will be done here at the student's expense.

Any student with a health problem identified by her personal physician on the entering health form will be evaluated by the College Physician who will initiate such health supervision or consultation as is necessary.

The College maintains a modern 22-bed Infirmary with a full staff of physicians and nurses. The college physicians may be consulted without charge by students residing in the Graduate Center and students living off campus who have paid the dispensary fee. Specialists practicing in Bryn Mawr and Philadelphia serve as consult-

ing physicians to the College. If consultation is necessary, the student must meet the expense. The Infirmary is open when College is in session and in the spring vacation. It is closed during the Christmas vacation.

The residence charge paid by graduate students living in the Graduate Residence Center entitles them to treatment in the College dispensary, and to care in the Infirmary for seven days (not necessarily consecutive) during the year, to attendance by the College physicians during this time, and to nursing, provided the illness is not contagious and is not sufficiently serious to require the services of a special nurse. After the seven day period, the fee is \$15.00 for each day in the Infirmary. In case of contagious disease, special nursing is obligatory and the student must meet the expense.

Graduate students who do not live in the Graduate Residence Center may pay a \$25.00 fee which entitles them to unlimited dispensary care and consultation with the college physicians. Graduate students who do not live in the Graduate Residence Center are not given bed care in the Infirmary.

All resident and non-resident graduate students of Bryn Mawr College are entitled to subscribe to the Students' Reimbursement Plan, which provides for a substantial proportion of hospital care and medical fees. The premium for this insurance is \$27.80 for a full year starting September 15. Students should apply to the Comptroller of the College.

Foreign Students. The College also makes available a policy which provides wider coverage of medical, surgical and hospital costs. This insurance is required of all students whose permanent residence is not in the United States unless they have equally complete protection of another kind effective in the United States. The cost for students under age 30 is about \$45.00 for a twelve-month period, starting in mid-September.

The College reserves the right, if members of the family cannot be reached, to make decisions concerning emergency operations or other matters of health in regard to the students.

Student and Alumni Organizations

STUDENT ORGANIZATION OF THE DEPARTMENT OF SOCIAL WORK

All Students in the Department of Social Work and Social Research are eligible for membership in the Student Organization. The organization is concerned with the many phases of student life, such as social gatherings, special events, administration of student lounge, self-regulation of Reading Room and other student needs. The Student Organization and Faculty work together to promote the objectives of the Department.

ALUMNI ASSOCIATION OF THE DEPARTMENT

The Alumni Association of the Department was organized to further the interests of the Department and its alumni. Activities of the Association include a spring breakfast for students to be awarded the M.S.S. or the Ph.D.

Officers for 1967-68 are:

Goetz Mayer, M.S.S., *President*

Susan Freeman, M.S.S., *First Vice-President*

Beatrice Schneider, M.S.S., *Second Vice-President*

Faith Angell, M.S.S., *Recording Secretary*

Joan Sall Goldfield, M.S.S., *Treasurer*

College Calendar 1968/1969

SECOND SEMESTER 1967/1968

- | | | |
|---------|----|---|
| January | 29 | <i>Work of the Second Semester begins at 9 A.M.</i> |
| January | 31 | <i>Registration period for graduate students ends.</i> |
| March | 2 | <i>Spanish examinations for Ph.D. candidates.</i> |
| March | 9 | <i>French examinations for Ph.D. candidates.</i> |
| March | 16 | <i>German examinations for Ph.D. candidates.</i> |
| March | 21 | <i>Spring vacation begins after last seminar.</i> |
| April | 1 | <i>Spring vacation ends at 9 A.M.</i> |
| April | 10 | <i>Ph.D. dissertations must be submitted to the Graduate Office.</i> |
| May | 10 | <i>Last day of seminars.</i> |
| May | 13 | <i>Examination period begins.</i> |
| May | 24 | <i>Examination period ends.</i> |
| May | 27 | <i>Conferring of degrees and close of 83rd Academic Year.</i>
<i>Graduate Residence Center closes.</i> |

FIRST SEMESTER 1968/1969

1968

- September 1 *Final date for filing completed applications for admission to the Graduate School.*
- September 11 *Graduate Residence Center opens.*
Registration period for graduate students begins.
- September 16 *Work of the 84th Academic Year begins at 9 A.M.*
- September 18 *Registration period for graduate students ends.*
- November 27 *Thanksgiving Holiday begins after last seminar.*
- December 2 *Thanksgiving Holiday ends at 9 A.M.*
- December 20 *Christmas Vacation begins after last seminar.*

1969

- January 6 *Christmas Vacation ends at 9 A.M.*
- January 9 *Examination period begins.*
- January 10 *Final date for filing completed applications for admission to the Graduate School.*
- January 22 *Examination period ends.*
Registration period for graduate students begins.

SECOND SEMESTER

- January 27 *Work of the Second Semester begins at 9 A.M.*
- January 29 *Registration period for graduate students ends.*
- March 21 *Spring Vacation begins after last seminar.*
- March 31 *Spring Vacation ends at 9 A.M.*

- | | | |
|-----|----|---|
| May | 9 | <i>Last day of seminars.</i> |
| May | 13 | <i>Examination period begins.</i> |
| May | 22 | <i>Examination period ends.</i> |
| May | 26 | <i>Conferring of degrees and close of 84th Academic Year.</i> |

Graduate Residence Center closes.

The calendar of dates to be observed by students in Social Work varies in some instances from the College Calendar. Students will be informed of these dates in September. Among the differences are the more limited vacation periods at Christmas and Easter for those students in field instruction. There is no break in field instruction for the examination period in January - February.

The College does not cancel regularly scheduled classes because of weather conditions.

Directions to Bryn Mawr

Bryn Mawr College is located approximately eleven miles west of Philadelphia and nine miles east of Paoli.

By air: From the Philadelphia International Airport take the airport limousine to 30th Street Station in Philadelphia and from there the Paoli Local to Bryn Mawr, or take a taxi directly to Bryn Mawr from the airport, a distance of 14 miles.

By automobile: From the east or west take U. S. 30 or the Pennsylvania Turnpike. From the Valley Forge Exit of the Turnpike, take the Schuylkill Expressway (Pa. #43 — Interstate #76), turning right at exit number 36, Pa. #320, Gulph Mills, which is 3.5 miles east of the toll gate; continue into Montgomery Avenue to the town of Bryn Mawr, a distance of 4 miles from the Expressway. Turn left at the traffic light at the intersection of Morris and Montgomery Avenues and take Morris Avenue to the next traffic light. Turn left on to New Gulph Road.

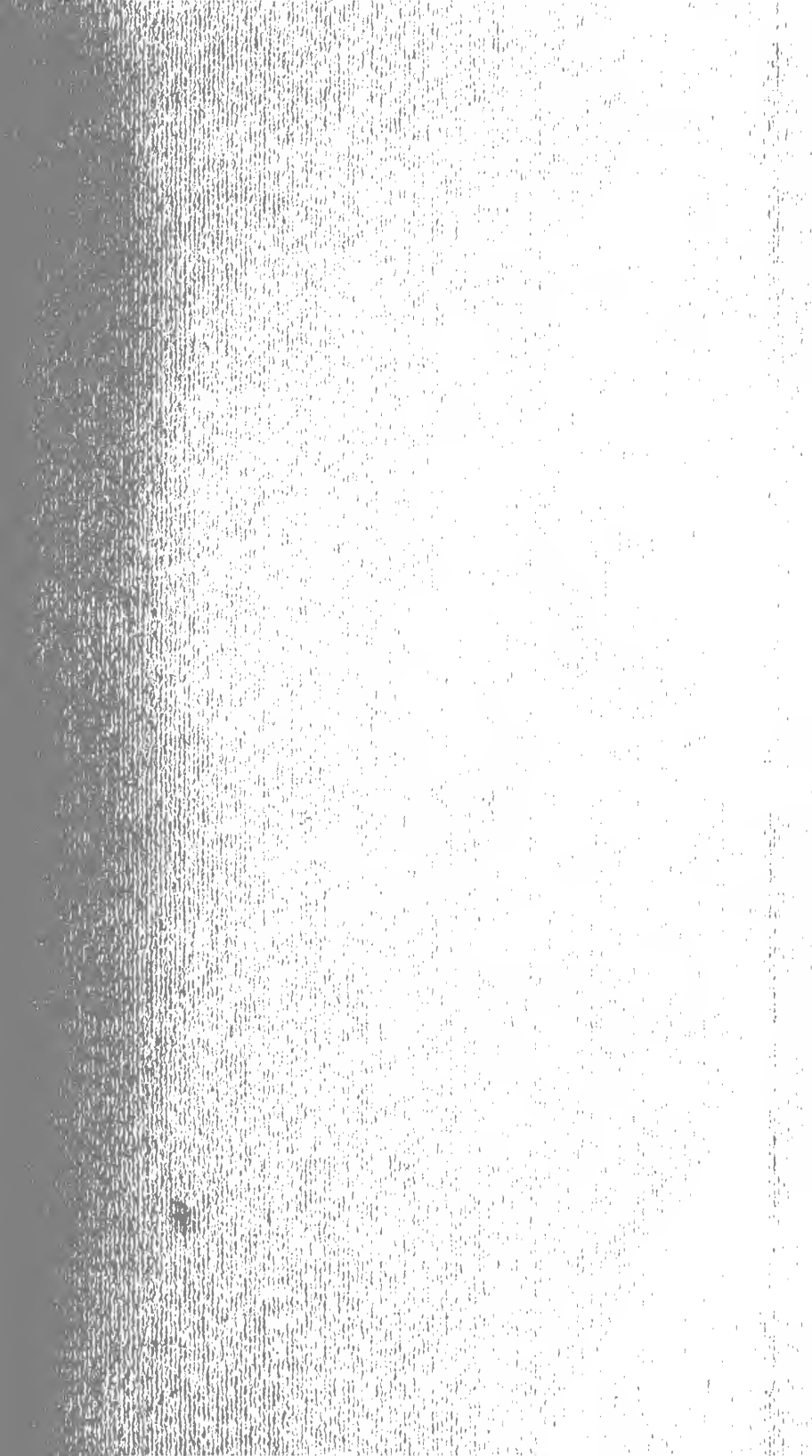
Visitors may use the College parking lot, entering at Merion Gate, which is directly opposite 815 New Gulph Road.

By bus: All Greyhound buses arrive at the Philadelphia terminal at 17th and Market Streets, adjoining Suburban Station. Trailways buses arrive at 13th and Arch Streets, three blocks from Suburban Station. Take the Paoli Local from Suburban Station to Bryn Mawr.

By railroad: Connections from the east, north and south are best made from 30th Street Station, Philadelphia, on the Paoli Local of the Pennsylvania Railroad, which leaves the station every thirty minutes. Those coming by rail from the west are advised to leave the train at Paoli (rather than North Philadelphia) and take the Local from Paoli to Bryn Mawr.

To walk to the College from the Bryn Mawr Station, go one block to the traffic light at the intersection of Morris and Montgomery Avenues, cross Montgomery and continue on Morris to the next traffic light. Turn left on to New Gulph Road until reaching 815, which is on the right just beyond Caversham Road.





BRYN MAWR, PENNSYLVANIA

BRYN MAWR

College Calendar

Graduate School 1968-69

Bryn Mawr College Calendar The Graduate School

Issue for the Session of 1968-69

July 1968 *Volume LXI Number 2*

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Graduate Work at Bryn Mawr

Graduate education at Bryn Mawr is built upon a close working relationship between students and mature scholars. Each student begins training on the level appropriate for his individual experience, and pursues a flexible program designed for his special requirements. Small seminars provide an opportunity to share research projects and to work under the direct supervision of the faculty.

Founded in 1885, the Bryn Mawr Graduate School was the first graduate school for women in the United States. Since 1931 both men and women have been admitted; but only after 1965 were adequate funds obtained to offer support for men comparable to that offered for women. Always small in relation to other graduate schools, Bryn Mawr has expanded gradually in response to the need for men and women well prepared for teaching and research. Today the student enrollment is between four and five hundred.

Graduate work leading to the degrees of Master of Arts and Doctor of Philosophy is available in:

<i>Anthropology</i>	<i>History of Art</i>
<i>Biology</i>	<i>Latin</i>
<i>Chemistry</i>	<i>Mathematics</i>
<i>Classical and Near Eastern Archaeology</i>	<i>Mediaeval Studies</i>
<i>Economics</i>	<i>Music</i>
<i>Education and Child Development</i>	<i>Philosophy</i>
<i>English</i>	<i>Physics</i>
<i>French</i>	<i>Political Science</i>
<i>Geology</i>	<i>Psychology</i>
<i>German</i>	<i>Russian</i>
<i>Greek</i>	<i>Sociology</i>
<i>History</i>	<i>Spanish</i>
<i>History and Philosophy of Science</i>	

Work leading to the degrees of Master of Social Service and Doctor of Philosophy is available in the Graduate Department of *Social Work and Social Research*.

College Calendar 1968-69

The Graduate School

First Semester

1968

- Sept. 1 *Final date for filing completed applications for admission to the Graduate School, and for filing applications for loans under Title II of the National Defense Education Act.*
- Sept. 11 *Graduate Residence Center opens.
Registration period for graduate students begins.*
- Sept. 16 *Work of the 84th Academic Year begins at 9 A.M.*
- Sept. 18 *Registration period for graduate students ends.*
- Oct. 19 *Italian, Spanish, Russian and Statistics examinations for M.A. and Ph.D. candidates.*
- Oct. 26 *French examinations for M.A. and Ph.D. candidates.*
- Nov. 2 *German examinations for M.A. and Ph.D. candidates.*
- Nov. 27 *Thanksgiving Holiday begins after last seminar.*
- Dec. 2 *Thanksgiving Holiday ends at 9 A.M.*
- Dec. 20 *Christmas vacation begins after last seminar.*

1969

- Jan. 6 *Christmas vacation ends at 9 A.M.*

- Jan. 10 *Final date for filing completed applications for Semester II to the Graduate School.*
- Jan. 22 *Registration period for graduate students begins.*
- Jan. 25 *Final date for filing completed applications for scholarships (foreign students).*

Second Semester

- Jan. 27 *Work of Semester II begins at 9 A.M.*
- Jan. 29 *Registration period for graduate students ends.*
- Feb. 15 *Final date for filing completed applications for fellowships and scholarships (citizens of the United States and Canada).*
- Mar. 1 *Italian, Spanish, Russian and Statistics examinations for M.A. and Ph.D. candidates.*
- Mar. 8 *French examinations for M.A. and Ph.D. candidates.*
- Mar. 15 *German examinations for M.A. and Ph.D. candidates.*
- Mar. 21 *Spring vacation begins after last seminar.*
- Mar. 31 *Spring vacation ends at 9 A.M.*
- Apr. 1 *Applications due for tuition grants (part-time students) and loans under Title II of the National Defense Education Act.*
- Apr. 5 *Ph.D. dissertations in all fields except natural science and mathematics must be submitted to the Graduate Office.*
- Apr. 25 *Ph.D. dissertations in natural science and mathematics must be submitted to the Graduate Office.*
- May 9 *Last day of seminars.*
- May 26 *Conferring of degrees and close of 84th Academic Year. Graduate Residence Center closes.*

Admission to the Graduate School

Requirements

Students must be graduates of colleges or universities of acknowledged standing. For special requirements set by individual departments, see the departmental listings beginning on page 15.

Procedure

The applicant should write to the Dean of the Graduate School, Bryn Mawr College, Bryn Mawr, Pennsylvania 19010, for application forms and indicate the field of special interest. The application must be supported by official transcripts of the student's full academic record and by letters from the dean and two or more professors with whom he has done his major work. No application can be considered until all the necessary documents are on file in the Graduate Office. Students are accepted for either full-time or part-time work.

Graduate Record Examinations

Applicants are advised to take the Graduate Record Examination Aptitude Test as well as the Advanced Test in their fields of special interest. In certain departments these examinations are required, as indicated in the departmental listings. Inquiries concerning the Graduate Record Examination should be addressed to Graduate Record Examination, Educational Testing Service, Box 955, Princeton, New Jersey 08540 or to the Graduate Record Examination, Educational Testing Service, 1947 Center Street, Berkeley, California 94704.

Dates

1. *Citizens of the United States and Canada:*

Applications for admission must be complete by September 1.
Graduate Record Examination tests: October 26, December 14, 1968; January 18, February 22, April 26, and July 12, 1969.

2. *Foreign Applicants:*

The closing date for admission is September 1, but applications from students who desire financial aid must be complete by January 25. These applications must include the score results of the

TOEFL or other language tests. Therefore, applicants must register for these tests in September and arrange to take them not later than October, of the year preceding the year in which they wish to enter.

For information concerning the TOEFL test, write to: TOEFL, Educational Testing Service, Princeton, New Jersey 08540. Tests are given on October 28, 1968; January 13, March 24, and June 9, 1969.

Students in departments requiring the Graduate Record Examination should also arrange to take these tests in October.

3. *Applicants for financial aid:*

Students wishing to apply for fellowships, scholarships, assistantships, tuition grants or other forms of financial aid must present complete applications by the following dates:

Full-time students:

United States and Canadian citizens, February 15.

Foreign applicants, January 25.

Part-time students, April 1.

Applicants for NDEA Title II loans, April 1 and September 1.

Admission to Graduate Courses

Admission to graduate courses is under the jurisdiction of the various departments. Students whose preparation is inadequate may be required to complete appropriate undergraduate courses before being enrolled in a full graduate program.

Registration

All graduate students, after consultation with the chairmen of their departments, must register for courses at the Office of the Dean of the Graduate School each semester during the registration period listed in the College Academic Calendar. Changes in registration require the approval of the Dean.

Students wishing certification to outside agencies must complete a form to be signed also by the department chairman and deposited in the Office of the Dean of the Graduate School.

Degree Candidacy

Students become candidates for advanced degrees only after they have met departmental requirements and been approved by the Graduate Committee.

Resources for Graduate Work at Bryn Mawr

The M. Carey Thomas Library and nine departmental libraries of Bryn Mawr College contain over 330,000 books and regularly receive more than 1200 periodicals as well as many scholarly series. The Rare Book Room houses the Marjorie Walter Goodhart Mediaeval Library of incunabula and the unusual Dillingham Collection of books on early Latin-American exploration in addition to other rare items. The Library has generous hours of opening throughout the year. Books are readily accessible on open stacks and in seminar rooms; individual carrels are available for some graduate students. A new library building is under construction and should be completed in the Fall of 1969.

The main entry cards of the Haverford College Library are in the Bryn Mawr catalogue, thus bringing approximately 600,000 entries into one file. The Library is a member of the Union Catalogue of Pennsylvania, which locates nearly 7,000,000 volumes in the Philadelphia area and throughout the state, including the libraries of the American Philosophical Society, the Library Company of Philadelphia, the Historical Society of Pennsylvania, the Academy of Natural Sciences, the Free Library of Philadelphia, the Franklin Institute, the College of Physicians, the Rosenbach Foundation, the University of Pennsylvania and Temple University.

Bryn Mawr has interesting archaeological and ethnological materials which are used for study and research by graduate and undergraduate students. The Ella Riegel Museum of Classical Archaeology contains examples of the Greek and Roman arts, especially vases, and other pre-classical antiquities. It includes the classical Greek coins assembled by Elisabeth Washburn King and the Aline Abaecherli Boyce Collection of Roman Republican silver coins as well as the Densmore Curtis Collection presented by Clarissa Dryden. Professor Hetty Goldman has donated an extensive study collection of pottery samples from the excavations at Tarsus in Cilicia. Old World Paleolithic, Neolithic, Paleo-Indian, Eastern Woodland, Southwestern, Middle Mississippian, and Mexican antiquities are also represented at Bryn Mawr in addition to the Ward Canaday Collection of outstanding examples of most of the ceramic and textile traditions known for Peru.

The Geology Department has valuable materials for research including the mineral collection of George Vaux, Jr. and 25,000 maps on deposit from the United States Army Map Service.

Students also use the resources of the Philadelphia area: the Philadelphia Museum of Art, the Pennsylvania Academy of Fine Arts, the Barnes Foundation, and the University Museum of the University of Pennsylvania. They take advantage of the musical life of the city by attending the Philadelphia Orchestra and by playing or singing with local groups.

Laboratories, classrooms and libraries for Biology, Chemistry, Geology, Mathematics and Physics are located in the three buildings of the Science Center. At the Center are rooms designed for work with radioactive materials, for microphotography and for glassblowing; there is a machine shop with expert machinists in charge and a workshop available to graduate students. Laboratories and classrooms for Psychology are in Dalton Hall. In addition to the usual equipment, apparatus and instruments for particular research projects by faculty and graduate students have been acquired, in part, through the Plan for the Coordination of the Sciences, through research grants from industry and other private sources, and from government agencies.

A Computing Center with an IBM 1620 computer on the Haverford campus and auxiliary record equipment at Bryn Mawr is under joint sponsorship of Haverford and Bryn Mawr Colleges and is open to students and faculty of both colleges.

Bryn Mawr, Haverford and Swarthmore Colleges own jointly a third-generation computer (IBM 360, Model 44), having 128,000 bytes of course storage, along with approximately 5,000,000 bytes of random access disk storage. Access to this computer is available over a high-speed data line from a variety of remote terminals located in various places on the Bryn Mawr campus. The remote terminals include teletypes, IBM 2260 keyboard display terminals, and two small satellite computers, one with card input-output.

Program of Study

The program of study consists of selected seminars, courses or individual work under the close direction of members of the faculty. For the sake of convenience, this program is divided into academic units which are to be completed at Bryn Mawr College. Three academic units constitute a full year's program. An academic unit may be a seminar, an undergraduate course for graduate credit, independent study in preparation for the Preliminary Examination, or a supervised unit of work.

A minimum of three academic units at Bryn Mawr is required for the degree of Master of Arts. Candidates for the degree of Doctor of Philosophy must complete three full years of graduate work which shall, with certain exceptions, include a minimum of six academic units at Bryn Mawr. Of these units at least one must be a unit of supervised work on the dissertation.

The number of units required for the Doctor of Philosophy may be reduced to no less than four for those who have held academic appointments at Bryn Mawr College for two or more years. Students holding the A.B. degree from Bryn Mawr College shall offer a minimum of three units. The Graduate Committee may, on recommendation of the departments, reduce the requirements for other students.

For the list of advanced undergraduate courses which with additional work may be accepted as graduate units subject to the approval of department chairmen and the Dean of the Graduate School, see the departmental offerings beginning on page 15.

In many departments, members of the faculty and graduate students meet from time to time in Journal Clubs or Colloquia to discuss current research or review recent publications in their field of study.

Under the Reciprocal Plan, courses at the University of Pennsylvania Graduate School of Arts and Sciences are available to Bryn Mawr graduate students. All full-time students and such part-time students as intend to become candidates for degrees are eligible. The number of courses which may be taken at the University is limited to the equivalent of one unit per year. The procedure for registration and payment of tuition fees is the same as for students enrolled wholly at Bryn Mawr, with the exception that the student will present a letter of introduction to the Dean of the Graduate School of Arts and Sciences of the University of Pennsylvania when registering there. The University charges a small general fee for the use of the library, a \$5.00 library deposit, which is refundable, and fees for late registration. Since the University of Pennsylvania opens early in September, Bryn Mawr students must make appropriate arrangements the previous spring.

Students enrolled in the program in the History and Philosophy of Science may attend the seminar offered by the American Philosophical Society.

Summer Work

Bryn Mawr has no summer session. Occasionally, at the invitation of members of the faculty, arrangements can be made for graduate students to continue research during the summer. The amount of credit for the work and the tuition fee to be charged depend upon the particular circumstances. Students should register for such work at the Graduate Office early in June.

Summer Institutes in France and Spain

Bryn Mawr College offers a summer program of intensive work in significant aspects of French culture at the *Institut d'Etudes françaises d'Avignon*. Certain courses carry graduate credit. For information write to Dr. Michel Guggenheim, Department of French, Bryn Mawr College.

For a similar summer program in aspects of Hispanic culture at the *Centro de Estudios Hispánicos* in Madrid write to Dr. Phyllis Turnbull, Department of Spanish, Bryn Mawr College.

Degree Requirements

Bryn Mawr College awards the degrees of Doctor of Philosophy, Master of Arts, and Master of Social Service.

The Degree of Doctor of Philosophy

The course of study is designed to prepare students for professional careers as scholars and teachers. Candidates should have ability of high order, intellectual curiosity, critical judgment, independence, a broad general education, fundamental training in the major and allied fields and the determination needed to carry through an exacting program.

The general requirements, to which should be added those of the various departments, are as follows:

1. Undergraduate preparation in major and allied fields which is satisfactory to the departments concerned and to the Graduate Committee.

2. A minimum of three full years of work beyond the A.B. degree in major and allied fields. Graduates of other colleges must complete at least two years (six academic units) at the Graduate School of Bryn Mawr College. This requirement may be reduced by the Graduate Committee for candidates who have held academic appointments for two years at Bryn Mawr College and occasionally for others. Students who hold the A.B. degree from Bryn Mawr College must complete one full year of graduate work (three academic units) at Bryn Mawr.

3. The recommendation of the student as a candidate by the director of the dissertation and the major Department and the acceptance of the recommendation by the Graduate Committee. Application for candidacy, on a form to be obtained at the Graduate Office, may be made as early as the spring of the student's first year in the Graduate School provided that the student has completed two units of graduate work at Bryn Mawr.

4. Knowledge of the foreign languages, computer languages (such as FORTRAN, ALGOL, etc.), and special techniques (such as Statistics) required by the individual departments and tested by written examination. Students whose native language is not English must present evidence of proficiency in English. These examinations must be passed before the student takes the Preliminary Examination.

5. A satisfactory Preliminary Examination in the fields established for the candidate. This examination, consisting of several written examinations, and at the option of the Department, an oral examination, is intended to test the candidate's general knowledge of the major and allied fields rather than familiarity with particular courses.

6. The preparation of a dissertation worthy of publication. The dissertation must represent independent investigation in the field covered by the major subject and contain new material, results or interpretations.

7. A satisfactory Final Oral Examination in the special field of the major subject in which the dissertation has been written.

8. The publication of the dissertation in whole or in part. Micro-filming is accepted as a method of publication.

A special pamphlet describing regulations for the Ph.D. degree in detail is available on request.

The Degree of Master of Arts

The general requirements for the M.A. degree are as follows:

1. Undergraduate preparation in major and allied fields which is satisfactory to the Departments concerned.

2. A knowledge of one modern foreign language and such additional foreign languages or special techniques as the individual departments may require. Examinations in languages and special techniques are held twice a year, in October and March. Students whose native language is not English must present evidence of proficiency in English and are not required to present an additional language.

3. The completion of a satisfactory program of work endorsed by the Department and accepted by the Graduate Committee. Application for such endorsement must be submitted on appropriate forms to the Dean of the Graduate School not later than December 1 of the academic year in which the candidate wishes to take the degree. The program of study must include three units of work: (1) one seminar or graduate course; (2) a second seminar or supervised unit of graduate work; (3) a third seminar or an undergraduate course recommended by the major Department. If undergraduate courses are included in this last unit, they must be supplemented by additional individual work. Only one such course may be offered for the M.A. degree. Under certain circumstances advanced undergraduate courses in science can be counted as seminars, subject to the approval of the Department and the Dean of the Graduate School. Candidates may offer three units of work in one major Department, or two in a major Department and one in an allied field. Candidates whose major Department conducts a Journal Club or Colloquium are expected to include it in their program.

4. The preparation of a paper in a special field normally related to one of the seminars or units of graduate work in the candidate's program. Candidates currently at Bryn Mawr College shall submit this paper by the date set by the Department. Candidates not currently on campus must submit the paper by May 1 of the academic year of the degree.

5. Each candidate, after all other requirements have been completed, must pass a final examination.

6. Work for the degree may be spread over several years which need not be in succession but must be included in a five-year period.

The Degree of Master of Social Service

The program for the M.S.S. degree is designed to prepare graduates for Social Casework and Community Organization. The degree represents the completion of a coordinated program of courses and field instruction. In the program in social casework, provision is made for concentration in the following fields: Child Welfare, Family Welfare, Medical, Psychiatric and School Social Work. In Community Organization, preparation is provided for Community Welfare Planning, Neighborhood Organization, Urban Renewal and Intergroup Relations.

For a copy of the *Bulletin* describing the M.S.S. and Ph.D. programs, write to the Director, Department of Social Work and Social Research, 815 New Gulph Road, Bryn Mawr, Pennsylvania 19010.

Graduate Program

1968-69

Graduate Seminars and Courses

Graduate seminars and courses vary from year to year. Undergraduate courses which may be offered for graduate credit are listed by number. The letter "a", following a number, indicates a half-course given in the first semester; the letter "b", following a number, indicates a half-course given in the second semester; the letter "c", following a number, indicates a half-course given two hours a week throughout the year. Brackets designate courses not given in the current year.

Special graduate requirements are listed under each Department. For the general degree requirements for the M.A. and the Ph.D., see pages 12-14.

Anthropology

Professor: Frederica de Laguna PHD *Chairman*

Assistant Professors: Herbert L. Alexander, Jr. MA
Jane C. Goodale PHD

Visiting Lecturer: Ruben E. Reina PHD

Prerequisites. A good undergraduate preparation in Anthropology or a closely related discipline is desirable. Students whose undergraduate training is not entirely adequate will be required to take such undergraduate courses as may seem necessary.

Allied Subjects. Allied subjects include Biology, Classical and Near Eastern Archaeology, Economics, English Literature, Geology, History, History of Art, Linguistics, Philosophy, Political Science, Psychology and Sociology.

Language Requirements. Candidates for the M.A. or Ph.D. must offer two modern languages.

Program and Examination for the M.A. The program consists of

three units of work in seminars or advanced undergraduate courses arranged for seminar credit. One of these may be in an allied subject. The Final Examination may consist of one four-hour written paper, or one three-hour written paper and an oral examination of one hour.

Program and Examinations for the Ph.D. All students are expected to take the equivalent of at least one year's graduate work at another institution approved by the Department. All Ph.D. candidates will be expected to become familiar with the principles of at least four of the following: (1) Prehistory or Archaeology of some major area, (2) Physical Anthropology and Human Paleontology, (3) Ethnology, (4) Linguistics, (5) History of Anthropology and Anthropological Theory. These requirements may be satisfied by courses approved by the Department, or competence tested by examination.

The Preliminary Examination for candidates for the Ph.D. will consist of four three-hour written papers and an oral examination of one hour. One of these examinations may be in an allied field.

For general degree requirements for the M.A. and the Ph.D., see pages 12-14.

SEMINARS AND GRADUATE COURSES

Depending upon the needs of the students, seminars selected from among the following will be offered either as full year courses (1 unit of credit), or as semester courses ($\frac{1}{2}$ unit of credit). Other topics may be offered as desirable.

Ethnographic Methods
The American Indian
Oceania and Australia
Social Organization
Primitive Religion

Culture Change
American Archaeology
Human Evolution and Prehistory
History of Anthropology

In addition, courses at the University of Pennsylvania are available under the terms of the Reciprocal Plan (see page 10).

SELECTED UNDERGRADUATE COURSES

- 203a. *Primitive Society*: Miss Goodale.
- 203b. *Primitive Culture*: Miss Goodale.
- 204. *American Archaeology*: Mr Alexander.
- 301b. *Cultural Theory*: Miss Goodale.
- 304a. *Culture and Personality*: Miss de Laguna.

Biology

Professors: L. Joe Berry PHD *Chairman*

Robert L. Conner PHD¹

Jane M. Oppenheimer PHD

Assistant Professors: Audrey Barnett PHD¹

William G. Hopkins PHD

Visiting Lecturer: William L. Holmes PHD

Instructor: Mary Jo Koroly AB

Prerequisites. An undergraduate major in Biology, Zoology or Botany, including courses in General and Organic Chemistry. Some preparation in Mathematics and Physics is desirable. Students with majors in other subjects may be admitted but will be required to make up any deficiencies in their preparation in Biology before being admitted to graduate courses. All applicants should submit scores in the Aptitude Test and Advanced Test of the Graduate Record Examinations.

Major and Allied Subjects. Candidates for the M.A. and Ph.D. degrees may specialize in Biochemistry, Developmental Biology, Genetics, Microbiology or Plant Physiology, but must take work from areas not chosen for specialization. Allied subjects may also be selected from fields in Chemistry and Physics and in special cases, with the approval of the Graduate Committee, from other related fields.

Language Requirements. Candidates for the M.A. degree should offer French or German. Candidates for the Ph.D. degree should offer French or German (or some other language by special permission of the Department and the Graduate Committee) and Statistics.

Program and Examination for the M.A. One full year, or its equivalent, of course work in seminars or advanced undergraduate courses arranged for seminar credit and a written report on a piece of experimental work carried out under the direction of a member of the Department. Qualified students may substitute a unit of supervised research for formal course work. While the work may be completed in one year by full-time students, it may be extended over two or more years and students with incomplete preparation may find such extension necessary. The Final Examination consists of a three-hour written examination covering the areas of study, and an oral examination concentrating particularly on the interpretation and significance of the experimental problem.

¹ On leave, 1968-69.

Examinations for the Ph.D. The Preliminary Examination for the Ph.D. consists of three written examinations, each of four hours' duration, and an oral examination of one to two hours. These examinations will cover the areas included in the course work in the major and allied fields. After the subject of the dissertation has been decided, the student will meet with the faculty of the Department to outline and discuss the subject and the proposed plan of research. The Final Examination is oral, covering the subject of the dissertation in relation to general biological problems.

For general degree requirements for the M.A. and the Ph.D., see pages 12-14.

SEMINARS AND GRADUATE COURSES

Seminars are offered in the following fields. The topics considered in any year are selected in accordance with the needs and desires of the students enrolled.

Mr Holmes: *Biochemistry* (offered in 1968-69).

Selected topics in intermediary metabolism.

Biochemical techniques.

Cellular physiology.

Mr Hopkins: *Physiology of Plants* (offered in 1968-69).

Photomorphogenesis.

Chemical control of plant growth.

Selected topics of plant metabolism.

Miss Barnett: *Selected Topics in Advanced Genetics* (offered in 1969-70).

Mutation and recombination.

Gene action.

Mr Berry: *Microbiology and Physiology* (offered in 1969-70).

Control of biological reactions.

Mechanisms of defense against infectious diseases.

Miss Oppenheimer: *Developmental Biology* (offered in 1969-70).

Factors controlling growth and differentiation.

Nucleic acids and proteins in development.

Morphogenesis in invertebrates and vertebrates.

Embryonic induction.

ADVANCED UNDERGRADUATE COURSES

Any advanced undergraduate course may be taken for graduate credit, provided that some additional work either in reading or experimentation is arranged with the instructor.

[351. *Advanced Genetics*: Miss Barnett.]

[352. *Advanced Plant Physiology*: Mr Hopkins.]

353. *Biochemistry*: Miss Koroly.

354. *Microbiology and Immunology*: Mr Berry.

355. *Developmental Biology*: Miss Oppenheimer.

Chemistry

Professors: Ernst Berliner PHD *Chairman*

George L. Zimmerman PHD

Associate Professors: Jay Martin Anderson PHD¹

Frank B. Mallory PHD

Joseph Varimbi PHD

Visiting Lecturer: Ernst Fischer PHD, National Science Foundation

Senior Foreign Scientist

Lecturers: Frances Bondhus Berliner PHD

Bernard J. Laurenzi PHD

Fields of Study and Research. The primary aim of the instruction of graduate students in the Department of Chemistry is to provide a sound background in modern chemistry and to prepare men and women for a professional career in productive scholarship, research, and teaching in chemistry. Courses and seminars are offered to enable the students to acquire a command of their chosen fields, in addition to a sufficiently broad general background so that they will be prepared for the variety of assignments in chemistry teaching or research which they may later encounter. Thesis research is the major part of the training. Research training is centered around a variety of investigations carried out by the members of the faculty. Currently there are active research programs involving both faculty and students in the following areas of organic, inorganic, physical, and theoretical chemistry: kinetics of electrophilic substitution and addition, relative reactivities of polynuclear aromatic systems, isotope effects, the photochemical conversion of stilbenes to phenanthrenes, the chemistry of benzofurazan oxide, the use of nuclear magnetic resonance spectroscopy for structural organic problems, reactions in liquid ammonia and other non-aqueous solvents, photochemical cis-trans isomerizations, ultraviolet and vacuum ultraviolet absorption studies of hydrated transition metal ions, nuclear magnetic resonance as applied to nuclear relaxation and chemical exchange studies.

Under the Plan for the Coordination of the Sciences there are special opportunities for research and training in such interrelated areas as geochemistry, biochemistry, chemical physics.

Prerequisites. An undergraduate preparation in Chemistry including courses in Inorganic, Analytical, Organic and Physical Chemistry, College Physics and Mathematics (Calculus).

¹ On leave, 1968-69.

Major and Allied Subjects. Students may specialize in Organic, Inorganic or Physical Chemistry. The allied subject for the Ph.D. may be chosen from the fields of Biochemistry, Mathematics, Physics, Inorganic Geology and a branch of Chemistry different from that of the major subject. Other combinations may be accepted with the approval of the Graduate Committee and on the recommendation of the Department. The typical work for the allied subject would be a year's course or seminar on an approved level.

Language Requirements. Candidates for the M.A. must offer German, French or Russian. Candidates for the Ph.D. may offer German and either French, Russian or demonstrated skill in digital computation, numerical analysis and the theory of error. This skill may be demonstrated *either* by a satisfactory grade in Interdepartmental Course 220c or its equivalent, *or* by an examination consisting of two parts, a practical part requiring the successful execution of a FORTRAN (or other equivalent language) program, and a written examination on numerical analysis and error theory.

Program and Examination for the M.A. Students who are candidates for the M.A. will usually offer one seminar in their special field, another seminar or advanced undergraduate course in Chemistry or an allied field and one unit of research. This unit consists of an experimental investigation carried out under the direction of a member of the Department. The Final Examination consists of a four-hour written examination, or a three-hour written and one-hour oral examination.

Program and Examinations for the Ph.D. Ph.D. students will normally be expected to devote a large proportion of their time to experimental or theoretical research, carried out under the direction of a member of the Department. They will usually take all seminars offered in their special fields during their stay at Bryn Mawr, in addition to such courses as will give them a broad background in Chemistry. The Preliminary Examination will normally be taken after the experimental work is well advanced. It consists of two four-hour written examinations, and a third, oral examination, which constitutes a defense of a number of research proposals previously submitted by the student. Four such proposals are required, two of which may be related to the student's thesis. The two written examinations will be from the candidate's major field. One will be a broad examination in the general aspects of the major field. The second will be in the special field of the candidate's research, with questions to include those testing familiarity with, and ability to interpret, material from the recent chemical literature of the candidate's special field. The proposition examination must be taken within one year after the first written examination. For students who offer a minor subject in a department other than Chemistry, equivalent arrangements will be made after consultation with the Department. The

Final Examination (oral) is devoted to the subject matter of the student's dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 12-14.

SEMINARS AND GRADUATE COURSES

In order to meet the needs of the students and to offer them as wide a selection of topics as possible, the seminars are arranged in such a way that each one is usually given at least once within a three-year period. The topics listed below are given in one-semester seminars, counting one-half unit of credit each. Ordinarily four seminars are offered each year. Individual programs are flexible, and the contents of the seminars are likely to vary with the research interests of the students and the current research activities of the faculty. The seminars listed below are illustrative of those that have been offered in recent years.

Inorganic Chemistry: Mr Varimbi.

Recent Methods in Organic Synthesis: Mr Mallory.

Structure and Physical Properties of

Organic Compounds: Mr Berliner.

Spectral Applications in Current Organic Chemistry: Mr Mallory.

Physical Organic Chemistry: Mr Berliner.

Natural Products: Mrs Berliner.

Physical Organic Aspects of Aromatic Chemistry: Mr Berliner.

Organic Photochemistry: Mr Mallory.

Chemistry of Heterocyclic Compounds: Mrs Berliner.

Introduction to Chemical Physics: Mr Zimmerman.

Introduction to Molecular Spectroscopy: Mr Anderson.

Intermediate Quantum Mechanics: Mr Anderson.

Photochemistry: Mr Zimmerman.

Theory of Electrolytic Solutions: Mr Varimbi.

Applications of Group Theory in

Quantum Mechanics: Mr Zimmerman.

Nuclear Magnetic Resonance: Mr Anderson.

Statistical Thermodynamics: Mr Varimbi.

Biochemistry: See under Biology.

Colloquium. All members of the Department and the graduate students meet every week for a presentation of current research in chemistry, usually by outside speakers.

SELECTED UNDERGRADUATE COURSES

The following advanced undergraduate courses may be taken for graduate credit:

301b. *Advanced Inorganic Chemistry*: Mr Varimbi.

302. *Advanced Organic Chemistry*: Mr Mallory, Mr Berliner.

303a. *Statistical Thermodynamics and Kinetics*: Mr Zimmerman.

303b. *Quantum Chemistry*: Mr Laurenzi.

304a. *Applied Mathematics for Chemists*: Mr Laurenzi.

Classical and Near Eastern Archaeology

Professor: Machteld Mellink PHD *Chairman*

Associate Professors: Kyle M. Phillips, Jr. PHD
Brunilde S. Ridgway PHD

Part-time Instructor: Adele F. Berlin AB

Prerequisites. An undergraduate major in Archaeology or at least two courses in Archaeology combined with a major in Greek, Latin, Ancient History, or History of Art. It is expected that students of Classical and Near Eastern Archaeology will have a basic knowledge of Greek and Latin. Students with incomplete preparation in Archaeology will be advised to take selected undergraduate courses during their first year in Graduate School.

Allied Subjects. Greek, Linear B, Latin, Akkadian, Hebrew, Hittite, Egyptian; History of Art, Ancient History, Anthropology, a science related to the archaeological program of the candidate.

Language Requirements. For the M.A. and Ph.D., a good reading knowledge of German and French. For the Ph.D., a reading knowledge of Greek or a Near Eastern ancient language.

Program and Examination for the M.A. Three units of work in Archaeology or in Archaeology and an allied field. The final examination is written (three hours) and oral (one hour).

Program and Examinations for the Ph.D. The students spend the first two years in residence, participating in seminars and preparing for the Preliminary Examination. The third year is usually spent at the American School of Classical Studies in Athens or at another archaeological research center abroad. Museums in Europe and the Near East are visited during this year, and participation in excavations is arranged when possible (see below).

The Preliminary Examination, normally taken at the end of three years of graduate work, consists of four four-hour papers in selected fields such as Greek and Roman sculpture, architecture, monumental painting, Greek vase-painting, numismatics, Aegean prehistory, prehistory of Western Asia, Mesopotamian art and archaeology, the archaeology of Anatolia or Syria. One of the papers may be written in an allied field. The Final Examination covers the field of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 12-14.

Excavations. The Department currently sponsors two excavation projects:

- I. An investigation of the Bronze Age habitation of ancient Lycia, in progress since 1963 at the third millennium B.C. site of Karataş near Elmalı.* Advanced graduate students participate in this excavation which is organized as a field seminar during the fall term with full graduate credit. The program provides instruction in excavation and field techniques and gives an opportunity to visit other sites, excavations and museums in Turkey, with discussion of the problems of the Bronze Age in the Aegean and Anatolia. The final publication will be prepared on the basis of the joint field reports by the participants.
- II. The Etruscan project, started in 1966, is the excavation of the archaic site of Murlo near Siena, organized in cooperation with the Archaeological Museum in Florence. The work takes place during the summer and offers qualified graduate and undergraduate students training in excavation techniques while participating in the study of a townsite and necropolis of the sixth century B.C.†

Cooperation with the University of Pennsylvania. Attention is drawn to the courses offered by the Departments of Classical Archaeology, Anthropology, History of Art, Oriental Studies, and Biblical Archaeology at the University of Pennsylvania. Under the Reciprocal Plan, students may register for a unit of work at the University or pursue research at the University Museum.

SEMINARS AND GRADUATE COURSES

The following seminars are offered in 1968-69:

Miss Mellink:

Field Seminar in Aegean and Anatolian Archaeology
(*Excavations in Lycia*, semester I).

Anatolian Archaeology (semester II).

Mrs Ridgway:

Problems of Archaic Etruria (semester I).

The Development of the Greek Temple (semester II).

Mr Phillips:

Problems of Archaic Etruria (semester I).

Pompeian Wall Painting (semester II).

* cf. *American Journal of Archaeology* 68 (1964) 269-278; 69 (1965) 241-251; 70 (1966) 245-257.

† cf. *American Journal of Archaeology* 71 (1967) 133-139.

ADVANCED UNDERGRADUATE COURSES

- 201b. *Egypt and Mesopotamia*: Miss Mellink.
203a. *Greek Sculpture*: Mrs Ridgway.
[205b. *Aegean Archaeology*: Miss Mellink.]
301a. *Greek Vase-Painting*: Mr Phillips.
301b. *Ancient Architecture*: Mrs Ridgway.
[303. *Anatolian and Syrian Archaeology*: Miss Mellink.]
304a. *Ancient Monumental Painting*: Mr Phillips.
305. *Akkadian*: Mrs Berlin.

Comparative Philology and Linguistics

Professor of Spanish: Joaquín González Muela *D en FL*
Associate Professor of English: Robert B. Burlin PHD
Assistant Professor of German: Nancy C. Dorian PHD

Comparative Philology may be offered as an allied subject for the Ph.D. but not as a major subject. For courses in Philology, see statements under the Departments of English, French, German and Spanish.

Economics

Professors: Morton S. Baratz PHD *Chairman*¹
Joshua C. Hubbard PHD
Assistant Professor: Richard B. Du Boff PHD²
Visiting Lecturer: Helen M. Hunter PHD

Prerequisites. An undergraduate major in Economics, with work in such related fields as History and Political Science. Applicants with

¹ On leave, semester I, 1968-69.

² On leave, semester II, 1968-69.

majors in other disciplines will be admitted but may first be required to pass a qualifying examination, consisting of a three-hour paper in theoretical economics at the level maintained for final-year undergraduates in Economics at Bryn Mawr College. Students whose undergraduate training in Economics is not entirely adequate may be required to take such undergraduate courses as the Department thinks necessary. Under certain conditions, such work may receive graduate credit.

Allied Subjects. Most subjects in the other social sciences, and in History and Philosophy, are acceptable as allied work. Mathematics, Statistics, and Accounting are not only acceptable as allies but are necessary to advanced work in Economics. Courses in these subjects, when not offered at Bryn Mawr, may be taken at the University of Pennsylvania under the Reciprocal Plan.

Language Requirements. For the M.A. one modern language and either advanced mathematics or econometric analysis. For the Ph.D. two modern languages.

Admission to the Ph.D. Program. Students holding a Master's degree in Economics from other institutions may be required to pass a qualifying examination before admission to the Graduate School. Those who have been admitted to the Ph.D. program are eligible to apply for candidacy for the Ph.D. when they have completed two full units of graduate work at Bryn Mawr.

Program of Study for the M.A. It is expected that the work for the M.A. degree will require not less than one calendar year of graduate study. All candidates for the M.A. degree must complete three units of formal course work (seminars, courses, supervised units) prior to submitting the M.A. research paper. One of these units must be in Economic Theory, one in Econometrics and one in the student's special field of interest (e.g., Economic Development, Money and Banking, Economic History). Course examinations in each of these three fields must be passed before the candidate presents the research paper. After acceptance of the paper a final examination, consisting of a written paper and a brief oral examination, must be passed.

Program of Study for the Ph.D. Candidates for the Ph.D. will take as much formal course work as is necessary to prepare them for the Ph.D. examinations. The Preliminary Examination will consist of four three-hour written papers and an oral examination; one of the written papers will be in Economic Theory and one in Economic History; the other two papers will be in fields related to the candidate's major interest. The Final Oral, taken after the dissertation has been accepted, will be devoted to the subject matter of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 12-14.

Mr Baratz:

Microeconomic Theory.

Industrial Organization and Markets.

Economics of Underdevelopment.

Mr Du Boff:

Comparative Economic Systems and Philosophies.

Economic Development: the United States and Western Europe.

Mr Hubbard:

Macroeconomic Theory.

Fiscal-Monetary Theory and Policy.

Mrs Hunter:

Statistics and Econometrics.

Education and Child Development

Professor and Director,

Child Study Institute: Rachel D. Cox PHD *Chairman*

President of the College: Katharine Elizabeth McBride PHD

Associate Professor and

Director, Thorne School: Susan E. Maxfield MS

Associate Professor: Ethel W. Maw PHD

Assistant Professors: Emmy A. Pepitone PHD

Faye P. Soffen PHD¹

Part-time Instructor: Beth Riser MA

The program prepares students for college teaching and research in Educational Psychology and Child Development, for child guidance, for school psychology, school counseling, for teaching in the schools and for early childhood education. The training is carried on in a setting of service to public and laboratory schools and the community at large. Classes, seminars and staff conferences provide opportunity for students from several related disciplines to develop competence in the team approach to the children's specialties in education, psychology and guidance agencies. Trends in physical, intellectual and emotional growth from infancy to maturity are stressed.

Work leading to the certificate to teach in the public secondary school is open to students who present some preparation in Psychology and are qualified in a subject matter field. Foundation work for teaching in the elementary school and a sequence leading to specialization in counseling with supervised field work are open to qualified students.

¹ On leave, semester I, 1968-69.

Prerequisites. An undergraduate preparation in the liberal arts which must include work in General Psychology. Students whose undergraduate training in Psychology is not adequate will be required to take such undergraduate courses as seem necessary. Applicants for admission are asked to submit scores of the Graduate Record Examination in Verbal and Mathematical aptitudes.

Major and Allied Subjects. Candidates for advanced degrees are expected to become competent in several different areas: Child Development, Learning, Clinical Evaluation, Guidance, Secondary Education, Early Childhood Education, the School as a Social Institution and History and Philosophy of Education. For the M.A., two fields are required. For the Ph.D., five fields must be presented. One allied subject may be chosen from the fields of Psychology, Sociology, Anthropology or Philosophy.

Requirements in Languages and Statistics. For the M.A., students are required to pass an examination in one modern foreign language and demonstrate a working knowledge of descriptive and inferential statistics. For the Ph.D., students are required to pass an examination demonstrating reading knowledge of one modern foreign language and competence in statistics through multiple correlation and factor analysis. An exception to this is the case of students who offer History and Philosophy of Education as one of the major fields. Such students must demonstrate a reading knowledge of two foreign languages, one of which shall be modern, one classical. These students must also satisfy a statistics requirement, the level of the requirement to be set by the nature of the student's total curriculum. The statistics requirement for both degrees may be satisfied by passing an examination or by passing an appropriate course at a satisfactory level.

Program and Examination for the M.A. Candidates will normally offer three units of graduate work in Education, although one of three may be taken in an allied field. A paper embodying the results of independent research is required. The Final Examination consists of two three-hour written examinations, one in each field offered and a one-hour oral examination on the M.A. paper.

Examinations for the Ph.D. The Preliminary Examination consists of four written papers. One of the written papers may be in the allied field. The Final Examination is in the field of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 12-14.

The Phebe Anna Thorne School and The Child Study Institute. The Phebe Anna Thorne School is maintained by the Department as a laboratory nursery school for normal children where students may observe and assist in the program for three- and four-year olds. For those preparing for teaching, medical work with children, child welfare or guidance, the school provides opportunity for direct experience with early child development. Students preparing for early

childhood education spend substantial blocks of time in the Thorne School.

The Department also operates at the College the Child Study Institute, a mental health center where problems of learning and behavior are studied and remedial measures planned and carried out with parents and children. The service is given by a staff of qualified specialists in child psychiatry, psychology, social case work and remedial teaching. Advanced students participate at various levels of responsibility. Referrals from the schools, neurological and pediatric departments of the Bryn Mawr Hospital, from physicians, social agencies and families give students the opportunity for acquaintance with a diversity of clinical material.

A separate building on the college grounds houses the Thorne School and the Institute with rooms equipped for nursery school teaching and for individual examination of pupils, remedial teaching, individual and group therapy and student observation.

SEMINARS AND GRADUATE COURSES

The seminars offered are selected from the following (in most cases, laboratory practice is required):

Miss McBride:

The American School.

Mrs Cox:

Advanced Clinical Evaluation
(including the Projective Techniques)
The Individual.
Problems of Child Development.
Adolescent Development.

Miss Maxfield:

Developmental Psychology.
Early Childhood Education.
Growth and Learning in the Kindergarten.

Mrs Maw:

Educational Psychology.
Curriculum of the Elementary School.
Research and Measurement in Education and Child Development.

Mrs Pepitone:

History and Philosophy of Education.
The Social Psychology of the School.
Group Dynamics: Theory and Research.

Mrs Riser:

Diagnosis and Remediation of Learning Deficits.

Mrs Soffen:

The Psychology of Exceptional Children.
Principles and Organization of the Guidance Program.
The Counseling Process: Theory and Practice.
The Group Process in Counseling and Guidance.

SELECTED UNDERGRADUATE COURSES

[201a. *Educational Psychology*: Mrs Maw.]

206a. *Child Psychology*: Mrs Cox.

301a. *Principles of Teaching in the Secondary School*: Mrs Maw.

302a. *Principles of Teaching in the Elementary School*: Mrs Maw.

Course numbers 301a and 302a satisfy the student-teaching requirement of most states. Plans for registration should be made in the spring or summer before the student expects to take the course so that appropriate arrangements can be made. Supervised teaching: 12 hours per week.

308b. *Psychology of the Abnormal Personality*: Mrs Cox.

English

Professors: Isabel Gamble MacCaffrey PHD¹

K. Laurence Stapleton AB

Associate Professors: Robert B. Burlin PHD *Chairman*

Robert H. Butman MA

Thomas H. Jackson PHD

Assistant Professors: Roger W. Cummins PHD

Gwenn Davis PHD

Peter Leach MFA

Robert L. Patten PHD¹

Clifford E. Ramsey PHD

Visiting Lecturers: Harold E. Pagliaro PHD

Matthias A. Shaaber PHD

Lecturers: Sandra M. Berwind PHD

Joan L. Klein PHD

Prerequisites. An undergraduate major in English (or its equivalent) consisting of a critical and historical study of several periods of English Literature. Students working in the mediaeval period must have a reading knowledge of Latin. For other students this is strongly recommended. Students must have had some training in at least one

¹ On leave, 1968-69.

other field of the humanities: a classical or a modern foreign literature, History, the History of Art or Philosophy. All applicants should submit scores in the Aptitude Test and Advanced Test of the Graduate Record Examinations.

Allied Subjects. Any language and literature, classical or modern European; English Philology; American Literature; Philosophy; History, mediaeval or modern; and the History of Art.

Language Requirements. French and German. In special cases, another modern language may be substituted for German, by permission of the Department. M.A. candidates may be permitted to offer a classical language instead of German. Ph.D. candidates will be expected to present evidence of a knowledge of Latin equivalent to two years of high school training. This requirement must be satisfied before the candidate takes the Preliminary Examination for the Ph.D.

Program and Examinations for the M.A. Three units of work in English or two in English and one in an allied field. The Final Examination is written, four hours in length. The M.A. paper is due on May 1.

Program and Examinations for the Ph.D. Seminars are given in all the major fields of English literature, and the topics selected for investigation are designed to offer training in advanced methods of research. Through reports and discussion, attention is directed to problems in the history of literature and the interpretation of the writings of major authors. Various points of view in literary criticism are represented, with emphasis on the nature of genres and modes as well as developments in the intellectual history of England and America.

The equivalent of six units of graduate work is required, one of which may be in an allied field. Candidates for the Ph.D. in English will be expected to spend at least one year in full-time graduate work in the Department. The program must include some training in Old English or in the History of the English Language, unless a special exception is granted. The Preliminary Examination is in five parts: four written (four hours each) and an oral (one to two hours). One examination may be in an allied field. The Final Examination (oral, from one to two hours) is in the field in which the candidate has written the dissertation. In the choice of four fields for the Preliminary Examination, the student is expected to demonstrate a balanced knowledge of different periods. The possibility of supervised units in the field of the dissertation allows for independent study and analysis of new problems in research. Qualified students are encouraged to offer work in related departments such as other literatures, philosophy, and history.

For general degree requirements for the M.A. and the Ph.D., see pages 12-14.

SEMINARS AND GRADUATE COURSES

Since seminars run through the year, students must begin work in the first semester.

Mr Burlin:

Old English Literature.

Middle English.

Mrs MacCaffrey:

Spenser and Sixteenth-Century Poetry.

Mr Shaaber:

Shakespeare.

Miss Stapleton:

Milton.

Studies in Poetry.

Mr Ramsey:

Literature of the Eighteenth Century.

[Mr Patten:

The Victorian Period.]

Mr Cummins:

Studies in American Literature.

Mr Jackson:

Studies in Twentieth Century Literature.

SELECTED UNDERGRADUATE COURSES

- 201. *Chaucer and His Contemporaries*: Mr Burlin.
- 202. *The Eighteenth Century*: Mr Ramsey.
- 203. *The Romantic Period*: Mr Pagliaro, Mr Jackson.
- [204. *The Victorian Period*: Mr. Patten.]
- 206b. *Restoration Drama and the Age of Dryden*: Mrs Klein.
- 207. *Twentieth Century English and American Literature*:
Mr Jackson.
- 208. *American Literature*: Mr Cummins.
- 214b. *English Prose of the Sixteenth Century*: Miss Davis.
- [300. *Old English Literature*: Mr Burlin.]
- 301b. *Drama and Narrative of the Middle English Period*:
Mr Burlin.
- [302. *The Sixteenth Century*: Mrs MacCaffrey.]
- [303a. *Elizabethan and Jacobean Drama*.]
- 304. *Shakespeare*: Mr Shaaber.
- 305. *The Seventeenth Century*: Miss Stapleton.

French

Professors: Michel Guggenheim PHD *Chairman*
Mario Maurin PHD

Visiting Professor: William J. Roach PHD

Assistant Professors: Ellen Ginsberg PHD
M. Pauline Jones PHD
Catherine Lafarge PHD

Visiting Lecturer: Marcel Gutwirth PHD

Prerequisites. An undergraduate major in French, based on study in school and at least three years of college French, including some advanced work in literature, with evidence of ability to present reports and carry on discussion in French. Training in Latin corresponding to at least two years' study in school is advisable.

Major and Allied Subjects. Students specialize in Modern French Literature. In general, it is required that Old French Philology and Literature be offered as the allied subject. In special cases and with the consent of the Department, one of the following may be accepted as an allied subject: any literature, ancient or modern; Comparative Philology; European History; Philosophy; History of Art.

Language Requirements. For the M.A. degree, one Romance language, or German, or evidence of extensive training in Mediaeval Latin or Advanced Latin. For the Ph.D. degree, one Romance language and German.

Program and Examination for the M.A. Candidates will offer two units of graduate work in French and a third unit, graduate or undergraduate, in either French or an allied field. An M.A. paper on a topic related to the work in one of the seminars is required. The Final Examination consists of a three-hour written examination and a one-hour oral examination, both in French.

Program and Examination for the Ph.D. The Preliminary Examination consists of four papers written in French, and an oral examination. Usually one paper is in Old French Philology and Literature. If another allied subject is offered, questions on Old French Philology and Literature will be included in one of the fields of the major examination papers. The Final Examination is oral and covers the field in which the dissertation has been written.

For general degree requirements for the M.A. and the Ph.D., see pages 12-14.

SEMINARS AND GRADUATE COURSES

The introductory course in Old French is offered every two years. Students wishing further work in Old French may attend graduate courses at the University of Pennsylvania. Graduate seminars in selected fields of Modern French Literature are given each year, so arranged that the same one will not be given in successive years. The seminars, which are conducted in French, are selected from the following:

Old French

Mr Roach: *Introduction à la littérature du moyen âge, présentation systématique des éléments de grammaire historique.*

Modern French Literature

Mrs Ginsberg: *Aspects de la poésie au XVIe Siècle.*

Le Théâtre au XVIe Siècle.

Racine.

La Tradition philosophique au XVIIIe Siècle.

Mr Guggenheim: *Le Moi dans la littérature française de Montaigne à Gide.*

Precieux, mondains et moralistes du XVIIe Siècle.

Rousseau et le Prérromantisme.

Stendhal—Balzac—Flaubert.

Mr Gutwirth: *Molière.*

Miss Jones: *Baudelaire.*

Verlaine et Rimbaud.

Scève et Mallarmé.

Origines de la poésie moderne.

Miss Lafarge: *Diderot.*

Le Roman au XVIIIe Siècle.

Stendhal.

Le Thème de la prison au XIXe Siècle.

Mr Maurin: *Aspects de l'autobiographie aux XIXe et XXe Siècles.*

Rabelais et Montaigne.

Arts Poétiques de Mallarmé au Surréalisme.

Proust—Gide—Mauriac.

Journal Club. During the year members of the Department and graduate students meet at intervals to discuss research in progress, or recent books and articles of interest. Some of these meetings are held jointly with the Departments of Italian and Spanish.

SELECTED UNDERGRADUATE COURSES

[301. *French Lyric Poetry:* Mrs Ginsberg, Miss Jones.]

302. *French Drama:* Mrs Ginsberg, Mr Guggenheim.

303. *The French Novel from 1700 to 1960*: Miss Lafarge,
Mr Maurin.
- [304. *French Essayists and Moralists*.]
- 305a. *Baudelaire*: Miss Jones.
- 305b. *Malraux et Camus*: Mr Maurin.

Geology

Professors: Edward H. Watson PHD *Chairman*
Lincoln Dryden PHD

Assistant Professors: Maria Luisa B. Crawford PHD
William A. Crawford PHD
J. Duncan Keppie PHD

Prerequisites. A course in General Geology and at least one course from each of the larger fields: Physical Geology and Paleontologic-stratigraphic Geology. Training in the allied sciences of Physics, Chemistry, Biology and Mathematics is necessary.

Major and Allied Subjects. Students may specialize in the fields typified by: Mineralogy-Petrology, Paleontology-Stratigraphy or Regional and Structural Geology. The allied subject for the Ph.D. may be either another field of Geology or any one of the other natural sciences or Mathematics; other subjects may be accepted in special cases.

Language Requirements. For the M.A. degree, one of the following: Russian, German, or French. Candidates for the Ph.D. degree may offer two foreign languages from the following: Russian, German, or French; or one foreign language from this list and proficiency in digital computation, numerical analysis and the theory of error. This proficiency may be demonstrated either by a satisfactory grade in Interdepartmental Course 220c or its equivalent or by an examination to be administered by the Department.

Program and Examination for the M.A. Three units of work, of which one will usually be a special piece of field or laboratory research. The Final Examination consists of a four-hour written test and a one-hour oral.

Program and Examinations for the Ph.D. Candidates will spend a major proportion of their time on a research problem; ordinarily, this will involve field mapping and collecting, together with labora-

tory study. The number of units of course work to be taken will depend on the student's preparation. The Preliminary Examination will test general background in Geology, the candidate's special field and either an allied subject or an additional field in Geology.

For general degree requirements for the M.A. and the Ph.D., see pages 12-14.

SEMINARS AND GRADUATE COURSES

Three or four seminars are offered each year, to be selected from the following:

Mr Watson, Mr Crawford: *Petrology*.

Selected subjects in the structure, physical chemistry and origin of rocks.

Mr Watson, Mr Keppie: *Structural Geology*.

Modern techniques and concepts in structural analysis.

Mr Watson, Mrs Crawford: *Mineralogy*.

The optical, chemical and X-ray study of selected mineral groups.

Mr Dryden: *Stratigraphy*.

A study of selected theoretical and practical problems of correlation. Usually conducted in connection with a field problem.

Mr Dryden: *Sedimentation*.

A study of the origin of sedimentary rocks; their source, transportation and deposition.

Mrs Crawford: *Metamorphism* (semester I).

The physical and chemical processes of metamorphism, accompanied by regional studies. Instruction on the universal stage and a study of petrofabrics may be included.

Mrs Crawford: *Optical Mineralogy—Petrography*.

Semester I: Crystal optics and the properties of the rock-forming minerals. Semester II: A microscopic study of igneous, sedimentary and metamorphic rocks.

Mr Crawford: *Geochemistry*.

Experimental physical chemistry, phase equilibria, and the distribution and behavior of the elements as applied to geologic problems.

Mr Crawford: *Analytical Techniques*.

Laboratory course in wet chemical and instrumental means of silicate analysis. Mechanical separations and experimental petrology.

Mrs Crawford: *X-ray Diffraction Techniques* (semester II).

Powder and single crystal analysis. Open to any student in the sciences.

SELECTED UNDERGRADUATE COURSES

- [201. *Crystallography and Mineralogy*: Mr Watson.]
- 202. *Paleontology*: Mr Dryden.
- 301. *Structural and Field Geology*: Mr Watson.
- [302. *Stratigraphy*: Mr Dryden.]
- 303. *Physiography*: Mr Crawford, Mrs Crawford, Mr Keppie.

German

Professor: Christoph E. Schweitzer PHD *Chairman*

Associate Professor: Hans Bänziger PHD

Assistant Professor: Nancy C. Dorian PHD

Instructor: Katherine L. Holli MA

Prerequisites. An undergraduate major or minor in German or an equivalent preparation.

Major and Allied Subjects. Students may specialize in either German literature or Germanic philology. One of these two fields or an area in the humanities, especially the literatures, may serve as the allied subject. Part of the training of each graduate student is directed toward the theory and practice of teaching German language and literature.

Language Requirements. Normally French for the M.A.; French and Latin or another language for the Ph.D.

Program and Examination for the M.A. The program consists of three units in German literature or in German literature and an allied field. In addition to acquainting the student with the field in general, the M.A. program introduces various methods of literary criticism. Every candidate must present a paper which represents satisfactory evidence of independent research. The Final Examination consists of a three-hour written examination and an oral examination of one hour.

Program and Examinations for the Ph.D. Every candidate must fulfill certain requirements in German literature and Germanic philology. Those majoring in Germanic philology will select the following courses: History of the German language, Gothic, Old High German, Middle High German, structural linguistics, and one of the follow-

ing: Old English or Old Norse. Those majoring in German literature will take a minimum of one unit in Germanic philology and will normally take one unit each in the mediaeval, classical, and modern periods, as well as at least one genre course. Under the guidance of members of the Department each student will engage in independent reading and research to supplement the course work. The Department encourages interdepartmental research projects and draws attention to the Ottendorfer Research Fellowship for study at a German university. The Preliminary Examination consists of four written papers, one of which must be taken in an allied field, and an oral examination. The Final Examination covers the field of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 12-14.

SEMINARS AND GRADUATE COURSES

The courses offered are selected from the following:

Mr Bänziger:

Modern German Literature.

"Novelle" and Novel.

Modern German Drama.

Miss Dorian:

Germanic Philology.

Linguistics.

Miss Holli:

Middle High German Literature.

Romanticism.

German Poetry.

Mr Schweitzer:

German Baroque Literature

Lessing, Goethe, and Schiller.

The "Bildungsroman."

SELECTED UNDERGRADUATE COURSES

300b. *German Literature from the Beginnings to the Baroque:*

Miss Holli.

[301b. *Introduction to Germanic Philology:* Miss Dorian.]

[302b. *German Language and Literature of the Middle Ages:*

Miss Holli.]

[303. *The Classics of the Nineteenth Century:* Mr Schweitzer.]

[304. *Modern German Literature:* Mr Bänziger.]

[305. *The German "Novelle":* Mr Bänziger.]

306. *The German Drama:* Mr Bänziger, Mr Cary (German 37 at Haverford).

[307b. *German Poetry:* Miss Holli.]

Greek

Professors: Mabel L. Lang PHD *Chairman*
Richmond Lattimore PHD LITT D¹

Instructors: Gregory W. Dickerson MA
James McCaughey MLITT

Prerequisites. An undergraduate major or minor in Greek, based on at least four years of college Greek, or the equivalent, with representative reading from Greek literature and history which, in the opinion of the Department, provides an adequate basis for graduate work. It is expected that all graduate students in Greek will have some knowledge of Latin.

Allied Subjects. Any literature, ancient or modern, Ancient History, Ancient Philosophy, Classical Archaeology, Comparative Philology.

Language Requirements. French and German for both the M.A. and the Ph.D.

Program and Examination for the M.A. The program consists of two units of graduate work in Greek and a third unit in an allied field. Before admission to the Final Examination candidates must pass an examination in Greek sight translation. The Final Examination consists of a three-hour written examination and an oral examination of one hour.

Examinations for the Ph.D. Before admission to the Preliminary Examination candidates must pass a rigorous examination in Greek sight translation. The Preliminary Examination consists of four written papers, one of which shall be in an allied subject, and an oral examination. The fields from which the three major papers may be selected include: Epic Poetry (with emphasis on Homer), Lyric Poetry (with emphasis on Pindar), Tragedy, Comedy, the Orators, the Historians, the Pre-Socratics, Plato and various periods of Greek history. The Final Examination covers the field of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 12-14.

SEMINARS AND GRADUATE COURSES

Miss Lang: *The Peloponnesian War*.

Thucydides' *History* will be studied in combination with other contemporary sources (inscriptions, political pamphlets, the comedies of Aristophanes) both to achieve some agreement concerning the facts and to arrive at a juster appreciation of the historian's pur-

¹ On leave, 1968-69.

poses and results as well as his principles and methods. There will be reading in secondary sources and various research topics, short and long, to be undertaken individually or as group projects.

Mr McCaughey: *Homer*.

A critical reading of the Iliad and Odyssey. We will work largely within the framework of the oral hypothesis, testing it by its application to the text, seeking to find a critical language appropriate to it. Other subjects, such as the historical background, the concept of a heroic age and the problems of translation will be touched on, but the main question will be the intention of the poetry and the nature of its unity.

SELECTED UNDERGRADUATE COURSES

- 101. *Herodotus and Tragedy*: Miss Lang and Mr McCaughey.
- 201. *Plato, Thucydides and Tragedy*: Mr Dickerson.
- 301. *Hesiod, Lyric Poetry and Comedy*: Mr McCaughey, Mr Dickerson.

History

Professors: Caroline Robbins PHD *Chairman*
 Arthur P. Dudden PHD
 Elizabeth Read Foster PHD
Dean of the Graduate School

Associate Professors: Mary Maples Dunn PHD
 Alain Silvera PHD¹

Assistant Professors: Charles M. Brand PHD¹
 Barbara M. Lane PHD

Visiting Lecturer: Bernard S. Smith PHD

Lecturer: Joseph A. Airo-Farulla MA

Assistant Professor of Latin: Russell T. Scott PHD

Instructor of Greek and Latin: Gregory W. Dickerson MA

Prerequisites. A good undergraduate preparation in general History, the humanities and the social sciences. Students who wish to work in seminars in the ancient or mediaeval fields must be able to read

¹ On leave, 1968-69.

Latin. Those planning work in Modern European History must have a reading knowledge of one modern language, preferably French or German.

Major and Allied Subjects. Students may work in Ancient, Mediaeval or Modern European History as well as in English and American and the History of Science. Most subjects in the field of History, social science, literature and the humanities will be accepted as allied work provided the student's general preparation is acceptable.

Students who have completed a year of graduate work at Bryn Mawr may register for a recommended course at the University of Pennsylvania under the Reciprocal Plan.

Language Requirements. Students must offer at least one modern foreign language, to be determined by the Department, for the Master's degree. Students who wish to continue work toward the Ph.D. must have completed the examinations in two modern foreign languages, to be determined by the Department, by the end of the second year of residence. Candidates for the Ph.D. in mediaeval history must also demonstrate ability to read in one classical language; directors of research may also require demonstration of ability in special techniques.

Program and Examination for the M.A. The program consists of three units of work in History or in History and an allied field. The Final Examination is written, and is usually four hours in length.

Program and Examinations for the Ph.D. All students are expected at some time to take a seminar or course in which some aspects of historiography and historical method are studied. The Preliminary Examination tests the student's competence in four general fields of History, or in three fields of History and one field in an allied subject. For example, allied work in Mediaeval Literature, Art or Philosophy is usually recommended to students of Mediaeval History and one of these may be offered in the Preliminary Examination. Students whose dissertations are in American History will be required to take at least two fields in European History. Students specializing in English History must offer at least two fields of Mediaeval or Modern European History for examination. The Final Examination covers the field of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 12-14.

SEMINARS AND GRADUATE COURSES

The seminars are arranged to allow the fullest possible choice for students over a two- or three-year period of study. Normally the same seminar will not meet two years in succession. Topics listed below indicate the area in which seminars will be offered according to the needs of students.

Ancient History

Students should consult pages 38 and 46 where the offerings of the Departments of Greek and Latin are listed.

Medieval and Renaissance History

[Mr. Brand: *Topics in the Middle Ages.*
The Fifth and Sixth Centuries.
The Carolingians.
The Twelfth Century.]

Mr. Smith: *Topics in the Middle Ages.*

British History

Miss Robbins: *Topics in the History of the Period 1649-1875.*
Each year a selected period is studied: e.g., Restoration, Revolution, Septennial Parliament, the age of Gladstone and Disraeli.

[Mrs Foster: *Parliament in the Early Stuart Period* (semester I).
Social and Economic History of the Early Stuart Period (semester I).]

American History

Mrs Dunn: *Topics in Colonial and Early National History.*
 Mr Dudden: *Topics in the History of the United States.*
Progressivism and the New Deal.

Modern European History

Miss Robbins: *Eighteenth Century Life and Thought.*
 Mrs Lane: *Topics in the History of Twentieth Century Europe.*
 [Mr Silvera: *The French Third Republic.*]
 [Mrs Dunn: *Historical Method* (semester I).]
 Miss Robbins: *Great Historians* (semester II).

Journal Club. Faculty and students of the Department, and occasionally members of the Departments of Economics and Political Science, meet four or five times a year to discuss research in progress, or recent books and projects, or to meet visiting scholars.

SELECTED UNDERGRADUATE COURSES

- 205. *Ancient History*: Mr Dickerson, Mr Scott.
- [208. *Byzantine Empire*: Mr Brand.]
- 209. *Early American History, 1607-1789*: Mrs Dunn.
- [301. *Europe in the Twentieth Century*: Mrs Lane.]
- 303. *Recent History of the People of the United States of America*: Mr Dudden.
- [304. *The Victorians and Edwardians*: Miss Robbins.]
- [305. *Renaissance and Reformation*: Mr Airo-Farulla.]

[306a. *The Enlightenment*: Miss Robbins.]

309a. *The Emergence and Decline of States in Europe and Asia in the Seventeenth and Eighteenth Centuries*: Miss Robbins.

310a. *Mexico: A Study in Tradition and Revolution, Historical Continuity and Change*: Mrs Dunn.

History and Philosophy of Science

Director: José María Ferrater Mora *Lic FL* (Philosophy)

Advisory Committee: Jane M. Oppenheimer PHD (Biology)

Ernst Berliner PHD (Chemistry)

Mary Maples Dunn PHD (History)

Assistant Professors: Charles A. Culotta PHD (History of Biology)

Arnold W. Thackray PHD

(History of Chemistry)

Robert K. Meyer PHD (Philosophy of Science)

This program within the Department of History has been developed in collaboration with the American Philosophical Society and the Department of the History and Philosophy of Science at the University of Pennsylvania. Courses taken at any of the participating institutions may be credited toward an advanced degree.

Prerequisites. Undergraduate preparation in science, philosophy, and history.

Major and Allied Subjects. The student's major subject will be History of Science, to be supported by intensive work in the field of history related to his special area of interest. Allied subjects may be philosophy, mathematics, and other areas in science and history.

Language Requirements. Students must offer at least one modern foreign language, to be determined by the Department, for the Master's degree. Students who wish to continue work toward the Ph.D. must have completed the examinations in two modern foreign languages to be determined by the Department before taking the Preliminary Examination.

Program and Examination for the M.A. The program consists of at least two units of work in the History of Science and one unit of work in a related field of History or Philosophy. The Final Examination is written, and is usually four hours in length.

Program and Examinations for the Ph.D. The Preliminary Examination tests the student's competence in four general fields, three in the History of Science and one in a related field of History or Philosophy. The Final Examination covers the field of the dissertation which must be in History of Science.

For general degree requirements for the M.A. and the Ph.D., see pages 12-14.

SEMINARS AND GRADUATE COURSES

Mr Culotta: *History of Physiological Theory in the Nineteenth Century.*

Mr Thackray: *Topics in the History of Chemistry.*

Mr Ferrater Mora: *Philosophical Problems in Modern Science.*

A seminar at the American Philosophical Society will be available for graduate credit in 1968-69:

Mr L. C. Dunn and others: *History of Genetics.*

UNDERGRADUATE COURSE

214. *History of Science:* Mr Culotta.

Students should consult the Catalogue of the Graduate School of Arts and Sciences at the University of Pennsylvania for courses offered there.

History of Art

Professor: Charles Mitchell MA BLITT *Chairman*

Associate Professors: Anne C. Hanson MACA PHD¹

James E. Snyder MFA PHD¹

Assistant Professor: Charles G. Dempsey MFA PHD

Lecturers: Arthur S. Marks MA

John David Summers MA

Field of Study. The history of Western art from Early Christian to modern times.

Prerequisites. The normal prerequisite for admission is undergraduate training in art-history, but students with special abilities or sound training in cognate disciplines are exceptionally admitted.

Language Requirements. Students are expected to read or to be learning the languages necessary for their special fields of study and not to delay their research by lack of linguistic competence. Advanced study of western art-history normally involves a working

¹ On leave, 1968-69.

knowledge of Latin, French, German and Italian. Both M.A. and Ph.D. candidates are subject to the general Graduate School rules with regard to languages, except that M.A. candidates are required to prove by examination their knowledge of two modern foreign languages.

Allied Subjects. History, Archaeology, Classics, Modern Languages; others, exceptionally, by arrangement.

Program for the M.A. (a) Three units of graduate work, one of which may be in an allied field, (b) an extended paper on an approved topic, (c) a written (or written and oral) examination to test the candidate's ability to place this topic in its art-historical context.

Program for the Ph.D. Prime emphasis is placed on a program of study and research leading to the dissertation, and students normally begin to work under a personal supervisor soon after entry. The Preliminary Examination consists of four written papers and an oral examination on four areas of art-history (or on three and one allied subject). After two or three years at Bryn Mawr, students normally go abroad for a period of whole-time research on their dissertations.

For general degree requirements for the M.A. and the Ph.D., see pages 12-14.

Kress Program. The Department participates in the Samuel H. Kress Foundation Fellowship Program.

SEMINARS AND GRADUATE COURSES

Four one-term seminars, on widely spaced topics that change from year to year, are annually given, in addition to individual units of supervised work. Graduate students are sometimes advised to take selected intermediate (Mediaeval, Renaissance, Baroque, or modern art) or advanced undergraduate courses. Topics for 1968-69:

Mr Mitchell: *The Patronage of Julius II* (semester II).

Mr Dempsey: *Iconographical Problems and Methods* (semester II).

Mr Marks: *Problems in English Subject-Painting* (semester I).

Mr Summers: *Mannerism* (semester I).

ADVANCED UNDERGRADUATE COURSES

302b. *The Late Michelangelo*: Mr Summers.

312a. *Topics in Renaissance Art*: Mr Mitchell.

313a. *Problems in Baroque Art*: Mr Dempsey.

314b. *English Art from Hogarth to Millais*: Mr Marks.

History of Religion

Rufus Jones Professor of History of Religion:

Howard C. Kee PHD *Chairman*

Associate Professor of Philosophy: Jean A. Potter PHD

No graduate work is offered in History of Religion.

The courses listed below are open to graduate students and may be taken for graduate credit with permission of the major department.

UNDERGRADUATE COURSES

103. *Biblical Literature:* Mr Kee.

201a. *The Religion of Israel:* Mr Kee.

201b. *The Beginning of Christianity:* Mr Kee.

204a. *Philosophy of Religion:* Miss Potter.

This course is also listed as Philosophy 204a.

Italian

Lecturers: Nancy Howe MA

Antonio Mastrobuono MA

No graduate work is offered in Italian. The courses listed below are open to graduate students and may be taken for graduate credit with the permission of the major department.

201. *Classics in Italian Literature:* Mr Mastrobuono.

202. *Dante:* Mr Mastrobuono.

305. *Twentieth-Century Italian Literature:* Miss Howe.

Latin

Professor: Agnes Kirsopp Michels PHD *Chairman*¹

Associate Professor: Myra L. Uhlfelder PHD *Acting Chairman*

Assistant Professor: Russell T. Scott PHD

Instructors: Gregory W. Dickerson MA

Bruce W. Frier MA

Prerequisites. An undergraduate major or minor, consisting of at least three years of Latin in college. All graduate students in Latin are expected to have begun the study of Greek.

Allied Subjects. The Department recommends as allied subjects: Greek, Classical Archaeology, Ancient History, Linguistics, or, for students whose special interest is in the Mediaeval period, Mediaeval History or a vernacular literature.

Language Requirements. French and German are required for both the M.A. and the Ph.D.

Program and Examination for the M.A. Candidates will normally offer two units of work in Latin and one unit, graduate or undergraduate, in an allied field. Students will normally complete the work for the degree in one year, but, in cases in which it seems advisable to supplement the student's undergraduate preparation, a second year may be necessary. Candidates must pass a test in Latin sight translation before being admitted to the Final Examination, which consists of a three-hour written and a one-hour oral examination.

Program and Examinations for the Ph.D. Candidates will normally complete a two-year program of four units of work in Latin and two in an allied field. Three of these units may be those offered for the M.A. degree, which usually forms part of the doctoral program. Candidates should then undertake a program of independent reading planned to enable them to pass the Preliminary Examination as soon as possible, after which they will concentrate on the dissertation. In some cases it may be advisable to carry one or two more units of work in the third year. The Preliminary Examination consists of: two four-hour written papers on Latin Literature; one four-hour written paper on a special field such as a particular period of Roman history, the works of a special author, Mediaeval Latin Literature, Epigraphy, Palaeography, the History of Classical Scholarship; one four-hour written paper in the field of the allied subject; a general oral examination. Students whose major interest is in the Mediaeval period will take the two examinations in Latin Literature, one in

¹ On leave, 1968-69.

Mediaeval Latin Literature, and a fourth in a field related to the Middle Ages or to the transmission of the Classics. Before admission to the Preliminary Examination, all students must pass tests in sight translation of Latin and Greek. The Final (oral) Examination will be on the field of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 12-14.

SEMINARS AND GRADUATE COURSES

Seminars will be selected in a sequence planned so that candidates for the doctorate will distribute their work over the following four groups. All seminars will run for one semester unless otherwise indicated.

Group I—*Republican and through the Augustan Age:*

Roman Comedy.

Elegy.

Lucretius.

Catullus.

Cicero's Letters and Orations.

Cicero's Philosophical Works.

Historiography from the Later Republic through the Augustan Age (two semesters).

Augustan Poetry (two semesters).

Group II—*Silver Age through the Antonine Period:*

Silver Age Poetry (two semesters).

Tacitus.

Roman Satire.

Petronius and Apuleius.

Group III—*Late Empire and Middle Ages:*

History of the Late Empire.

Literature of the Late Empire.

The Platonic Tradition in the West (Late Empire and Middle Ages).

Latin Literature of the Early Mediaeval Period (two semesters).

Latin Literature of the Twelfth Century (two semesters).

Group IV—

Proseminar: Background Reading.

The Classical Tradition: Scholarship and the Transmission of Texts (two semesters).

Roman Rhetoric (two semesters).

Roman Topography and Monuments.

SELECTED UNDERGRADUATE COURSES

301a. *Livy and Tacitus*: Mr Frier.

301b. *Vergil's Aeneid*: Miss Uhlfelder.

[302a. *Lucretius*: Miss Uhlfelder.]

[302b. *Cicero and Caesar*: Mr Scott.]

Mathematics

Professors: John C. Oxtoby MA *Chairman*

Frederic Cunningham, Jr. PHD

Assistant Professors: Ethan D. Bolker PHD

Martin Avery Snyder PHD

Prerequisites. A good undergraduate preparation in Mathematics, or in Mathematics and Physics.

Major and Allied Subjects. Students may specialize in any of the broad divisions of Mathematics: Algebra, Analysis, Geometry, or Mathematical Physics, but are expected also to acquire a well-rounded knowledge of Mathematics. Certain courses in Physics, Chemistry or Philosophy (logic) are accepted as allied work.

Language Requirements. Candidates for the M.A. must have a reading knowledge of French, German or Russian. Candidates for the Ph.D. must pass examinations in two of the three: French, German, Russian.

Program and Examination for the M.A. The program consists of three units of work in Mathematics, or in Mathematics and an allied field, and an M.A. paper. Advanced undergraduate courses which supplement the student's preparation may under certain conditions be taken for graduate credit. The Final Examination is usually oral and one hour in length.

Program and Examinations for the Ph.D. Candidates will take such courses and seminars as are needed to provide a sufficiently broad foundation. As they progress they will devote an increasing proportion of their time to individual study and research under the direction of a member of the Department. The Preliminary Examination is taken after the student is well advanced and usually consists of three or four written examinations intended to test the candidate's breadth of knowledge and understanding of the structure of Mathematics as

a whole. It may or may not include an oral examination. The Final Examination is oral and is devoted to the candidate's special field and the subject of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 12-14.

SEMINARS AND GRADUATE COURSES

At least three graduate courses or seminars are offered each year. Additional courses or directed reading and research can be arranged. The seminars offered in any year are selected to meet the needs of the individual students. Some may be offered for one semester only.

Mr Bolker:

Hilbert Space.
Topological Groups.
Banach Algebras.

Mr Cunningham:

Functional Analysis.
General Topology.
Linear Spaces.
Theory of Functions.

Mr Oxtoby:

Ergodic Theory.
Measure Theory.
Point Set Topology.
Theory of Functions.

Mr Snyder:

Applied Mathematics.
Numerical Analysis.
Partial Differential Equations.
Magneto-Hydrodynamics.

Journal Club. A Mathematical Colloquium at the University of Pennsylvania meets approximately every two weeks. Lectures by visiting mathematicians are frequently presented also at Haverford and Swarthmore Colleges.

SELECTED UNDERGRADUATE COURSES

Interdepartmental Course 220c. Introduction to Automatic Computation: Mr Snyder and members of several Departments.

- 301. *Advanced Calculus:* Mr Oxtoby.
- 303a. *Introduction to Abstract Algebra:* Mr Bolker.
- [307. *Numerical Analysis:* Mr Snyder.]
- 308. *Introduction to Applied Mathematics:* Mr Snyder.
- [310. *Theory of Functions of a Complex Variable:* Mr Oxtoby.]
- [312b. *Topology:* Mr Cunningham.]

Mediaeval Studies

Associate Professor of Philosophy: Jean A. Potter PHD *Chairman*

Professor of History of Art: Charles Mitchell MA BLITT

Professor of Spanish: Joaquín González Muela D en FL

Associate Professor of History of Art: James E. Snyder PHD¹

Associate Professor of Latin: Myra L. Uhlfelder PHD

Associate Professor of English: Robert B. Burlin PHD

Assistant Professor of History: Charles M. Brand PHD¹

Assistant Professor of Music: Isabelle Cazeaux PHD

Graduate work for the M.A. in the mediaeval field may be done either under a particular department or under the Mediaeval Studies Committee. Doctoral studies in the mediaeval period will usually come under the supervision of a particular department; in exceptional cases students with outstanding preparation will be permitted to take the Ph.D. in Mediaeval Studies.

Mediaeval work in a particular department will fall under the regulations of that department. For work under the Mediaeval Studies Committee the regulations are as follows:

Prerequisites. The committee must be satisfied that all candidates for admission have done sufficient undergraduate work to undertake graduate studies in the mediaeval field and have a reading knowledge of Latin and two modern languages.

Major and Allied Subjects. Any literature, ancient, mediaeval or modern, History, Philosophy, Classical Archaeology, History of Art, History of Music.

Language Requirements. For the M.A. and the Ph.D.: Latin, and two modern languages. Other languages may be substituted by permission of the Committee according to the candidate's special program.

Program and Examinations for the M.A. Candidates will normally work in two departments and will offer at least two units of graduate work in any of the mediaeval fields and a third unit in any of the fields listed as allied. An extended paper, usually growing out of the work of one of the seminars, will be required in addition to an examination. The Final Examination may be either written (four hours) or written and oral (three hours - one hour).

Program and Examinations for the Ph.D. The course of study will normally be under the guidance of one professor. Prime emphasis

¹ On leave, 1968-69.

will be placed on a program of research leading to a dissertation. A satisfactory Preliminary Examination in two mediaeval fields and one allied field, written and oral, will be required. The Final Examination will cover the field of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 12-14.

SEMINARS AND GRADUATE COURSES

See under the various Departments.

Music

Professor and Director of the Chorus:

Robert L. Goodale BMUS AAGO *Chairman*

Professor and Director of Ensemble Groups: Agi Jambor MA

Assistant Professor: Isabelle Cazeaux PHD

Visiting Lecturer: John H. Davison PHD

Prerequisites. Two years of Harmony, Counterpoint and Analysis, three years of History and Appreciation of Music, of which at least one should be in an advanced course, and a reading knowledge of one modern language, preferably German. Candidates must have a sufficient knowledge of pianoforte or organ playing to be able to play music of the technical difficulty of a Bach figured chorale.

Allied Subjects. Any modern language or literature, History, History of Art, History of Religion, Philosophy.

Language Requirements. Two modern languages are required for the M.A. degree, preference being given to German and French. For candidates for the Ph.D. degree two languages are required, one of which must be German.

Program and Examination for the M.A. The program consists of three units of work in Music or in Music and an allied field. The Final Examination is written and four hours in length.

Examinations for the Ph.D. The Preliminary Examination consists of four papers in the major field, or three papers in the major field and one in an allied field, and an oral examination. The Final Examination covers the subject matter of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 12-14.

SEMINARS AND GRADUATE COURSES

Miss Cazeaux:

Seminar in Musicology.

Mr Goodale:

Music of the Twentieth Century.

Mme Jambor:

The Interpretation of Music.

Mr Davison:

Theory of Music.

SELECTED UNDERGRADUATE COURSES

- 201. *The Nineteenth Century*: Miss Cazeaux.
- 202. *Advanced Theory and Analysis*: Mr Goodale.
- 203a. *Bach*: Mme Jambor.
- 203b. *The Classical Period*: Mme Jambor.
- 205a. *Musical Criticism*: Miss Cazeaux.
- [301a. *Music of the Twentieth Century*: Mr Goodale.]
- 301b. *Opera and Music Drama*: Miss Cazeaux.
- [302a. *Mediaeval and Early Renaissance Music*: Miss Cazeaux.]
- [302b. *Late Renaissance and Early Baroque Music*: Miss Cazeaux.]
- [303b. *Orchestration*: Mr Goodale.]
- 304a. *Interpretation of Keyboard Music*: Mme Jambor.
- 305. *Free Composition*: Mr Goodale.

Philosophy

Professors: Milton C. Nahm BLITT PHD *Chairman*

José María Ferrater Mora Lic FL

George L. Kline PHD

Isabel S. Stearns PHD

Associate Professor: Jean A. Potter PHD

Assistant Professor: Robert K. Meyer PHD

Prerequisites. In general, an undergraduate major in Philosophy. Students whose undergraduate training does not include a major in Philosophy may be required to take such undergraduate courses as the Department considers necessary.

Major and Allied Subjects. Students may major in either historical or systematic branches of Philosophy. Allied subjects: another field of Philosophy and subjects in most fields of the Humanities, Mathematics, and Natural and Social Sciences.

Language Requirements. For the M.A., one modern language. French and German for the Ph.D. In special cases, with the recommendation of the Department, a substitution may be made of one other modern language.

Program and Examination for the M.A. Three units of work in Philosophy or in Philosophy and an allied field. The Final Examination is usually written and four hours in length.

Examination for the Ph.D. The Preliminary Examination consists of four written papers in the major and allied fields and an oral examination. The Final Examination will cover the field of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 12-14.

SEMINARS AND GRADUATE COURSES

A minimum of three seminars, historical and systematic, is offered each year. The sequence of the seminars listed below will be adjusted according to the needs of the students.

Mr Nahm: *Aesthetics.*

A systematic and historical analysis in the philosophy of art.

Ethics.

A study of Plato's and Aristotle's or of Kant's ethical theories.

Kant.

A detailed study of the main themes of the *Critique of Judgment*.

Miss Stearns: *Metaphysics.*

A study of such metaphysical problems as causation, the nature of the individual, the person, reality and value.

Epistemology.

A systematic and historical study of such problems as the nature of universals, the nature of language, and the function of different agencies in knowledge.

Mr Ferrater Mora: *Philosophical Problems in Modern Science.*

A study of epistemological and ontological issues raised by the development of modern science from Newton to the present.

History of Philosophic Concepts.

The origin and development of philosophic concepts, with particular attention to meanings and changes of meaning throughout history.

Mr Kline: *Whitehead*.

A study of topics drawn from *The Concept of Nature, Science and the Modern World, Process and Reality*, and *Adventures of Ideas*.

Hegel.

An intensive study of the *Phenomenology of Mind*.

Ethics.

A close examination of classical texts in ethical theory, with some attention to twentieth-century authors.

Miss Potter: *Mediaeval Philosophy*.

Studies in selected problems and texts in mediaeval philosophical thought.

Continental Rationalism.

A detailed study of Descartes and Spinoza.

Philosophy of Religion.

A systematic study of the metaphysical and epistemological problems of theism.

Mr Meyer: *Deductive Logic*.

A study of deductive logic and of some outstanding results in the syntax and semantics of deductive logic.

Kant.

A study of the *Critique of Pure Reason*.

Journal Club. Graduate students have the privilege of becoming auxiliary members of the Fullerton Club. The club meets once a month at Bryn Mawr. Papers are read by visiting lecturers and by members of the faculties of Bryn Mawr College and of nearby colleges and universities.

SELECTED UNDERGRADUATE COURSES

202a. *Kant*: Mr Ferrater Mora.

202b. *Recent Metaphysics*: Miss Stearns.

203a. *Logic*: Mr Meyer.

209b. *Western Political Philosophy*: Mr Kline.

301b. *Philosophy of Criticism*: Mr Nahm.

303a. *Plato*: Miss Stearns.

305a. *The Concept of Time*: Mr Kline.

306b. *Philosophy of Mind*: Miss Trebilcot.

310b. *Philosophy of History*: Mr Ferrater Mora.

312b. *Philosophy of Science*: Mr Meyer.

Physics

Professors: Walter C. Michels PHD *Chairman*

Rosalie C. Hoyt PHD

John R. Pruett PHD

Assistant Professor: John R. Olson PHD

Prerequisites. An undergraduate major in Physics or in a field of study closely allied to Physics (e.g., Mathematics, Chemistry, Engineering). Students who have not majored in Physics will usually find it necessary to take some undergraduate courses before entering graduate seminars. All applicants for admission to graduate work in Physics are requested to submit scores in the Aptitude Test and Advanced Test of the Graduate Record Examinations.

Allied Subjects. Candidates for the degree of Doctor of Philosophy customarily offer Physics as the major subject and Mathematics as an allied subject. If a candidate's mathematical preparation is accepted as being adequate for the doctoral in Physics, Chemistry, Biology, or Geology may be substituted for Mathematics. Alternatively, the candidate may offer Experimental Physics or Theoretical Physics as a major subject with the other being offered as an allied subject.

Language Requirements. For the M.A. and the Ph.D. degrees, two languages are required; one, French, German or Russian; the second, "computer language," including FORTRAN.

Program and Examination for the M.A. An oral qualifying examination must be passed before the student is admitted to candidacy. The subject matter of the examination will include only material ordinarily covered in undergraduate college Physics courses, but the student will be expected to handle this material on a reasonably mature level. Each candidate is expected to have completed Physics 304 or its equivalent. The three units of work offered for the degree will ordinarily include one unit of Experimental Physics and at least one graduate seminar in Theoretical Physics. The paper will usually consist of a report on work done in connection with the unit of Experimental Physics. The M.A. examination is a one-hour oral examination.

Program and Examinations for the Ph.D. Each candidate must have completed Physics 304 or its equivalent and have passed the oral qualifying examination described above before being recommended for candidacy.

The Preliminary Examination is intended to test the candidate's general background and to determine whether this background is broad and deep enough to serve as a preparation for original research work in a specialized field. In general, two years of full or part-time graduate work should prepare the student for this examination and candidates for the Ph.D. are urged to submit themselves for examination at this stage of their work. The examination will consist of three four-hour written examinations, one problem set, and an oral examination lasting approximately one hour. Each of the three four-hour examinations will cover one of the following fields of Physics, to be chosen by the Department: (1) Classical Mechanics, including relativity theory, vibrations, and wave motion; (2) Electricity and Magnetism, including field problems and electromagnetic waves, the latter with particular reference to optical phenomena; (3) Quantum Mechanics, with applications to atomic and nuclear structure; (4) Thermodynamics and Statistical Mechanics, including both classical and quantum statistics. The student devotes approximately twelve hours to direct work on the problem set over a three-day period. Any books, periodicals, notes, etc. may be used in connection with the problem set. The oral examination is devoted to general Physics.

Unless the candidate has demonstrated adequate acquaintance with experimental physics in other ways, the research leading to the dissertation must be, at least in part, experimental. The Final Examination will cover the field of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 12-14.

SEMINARS

Three or more graduate seminars in Theoretical Physics are offered each year. In addition, a seminar in Experimental Physics is arranged individually for students desiring it, and generally serves as an introduction to a research problem.

Experimental Physics

Mr Michels, Miss Hoyt, Mr Pruett, Mr Olson.

Theoretical Physics

Mr Olson: *Electromagnetic Theory*.

Maxwell's Equations, applications to waves subject to various boundary conditions, transmission lines, wave guides, radiating systems. Prerequisite: An advanced undergraduate course in Electricity and Magnetism or in Theoretical Physics.

Mr Olson: *Quantum Mechanics*.

Necessity for the quantum hypothesis. The Schroedinger and Heisenberg formulations with applications to atomic structure. The Dirac approach with applications to relativistic electron theory and the quantum theory of radiation. Prerequisite: An

advanced undergraduate course in Mechanics or in Theoretical Physics.

At least one of the following advanced seminars is given each year:

Miss Hoyt: *Chemical Physics*.

Chemical and phase equilibria, interatomic and intermolecular forces, chemical bonding, molecular structure. Prerequisite: Quantum Mechanics.

Mr Michels: *Physics of the Solid State*.

Classification and characteristics of solids, theory of mechanical, electrical, thermal, and magnetic properties. Prerequisites: Quantum Mechanics and Electromagnetic Theory. Either may be taken concurrently.

Mr Pruett: *Nuclear Physics*.

An introductory study of classical nuclear physics followed by applications of quantum mechanics to nuclear problems and associated high energy phenomena. Some quantum electrodynamics and meson theory will be included. Prerequisite: Quantum Mechanics or its equivalent.

Colloquium. All members of the Department and all graduate students meet weekly for the discussion of current problems.

SELECTED UNDERGRADUATE COURSES

201a. *Electricity and Magnetism*: Mr Michels.

202b. *Optics*: Mr Pruett.

301a. *Classical Mechanics*: Mr Olson.

302b. *Atomic and Nuclear Structure*: Miss Hoyt.

303b. *Thermal Properties of Matter*: Mr Michels.

304. *Introduction to Theoretical Physics*: Miss Hoyt.

306a. *Unified Classical Physics*: Mr Pruett.

Political Science

The Caroline McCormick Slade Department of Political Science

Professor: Gertrude C. K. Leighton AB LLB *Chairman*

Associate Professor: Melville T. Kennedy, Jr. PHD

Assistant Professors: Charles E. Frye PHD
Marc H. Ross MA

Dean of the College: Dorothy Nepper Marshall PHD

Professor of Philosophy: George L. Kline PHD

Prerequisites. Good undergraduate training in Political Science and related subjects.

Major and Allied Fields. The major fields in Political Science are Political Philosophy and Theory, Western Comparative Politics, Non-Western Comparative Politics, American Political Process, American Constitutional Law and International Politics and Law. Allied fields may be chosen in the other Social Sciences, in History and Philosophy, and, with the special permission of the Department, in certain subjects in Literature. Candidates for the Ph.D. are expected to prepare themselves in four fields, one of which may be allied.

Language Requirements. One modern foreign language for the M.A. Two modern foreign languages for the Ph.D.

Program and Examination for the M.A. The program consists of three units of work in Political Science, but a unit from an allied field may be substituted for one of these. The Final Examination is written.

Program and Examination for the Ph.D. Candidates are expected to offer four fields, one of them being the field in which the dissertation is done. These fields are tested by preliminary written and oral examination. The dissertation is defended in the Final Oral Examination.

For general degree requirements for the M.A. and the Ph.D., see pages 12-14.

SEMINARS

Mr Frye:

European Comparative Politics.

Mr Kennedy:

Problems in Asian International Relations.

Topics in Chinese Political and Social Development from 1911 to 1949.

Miss Leighton:

International Law.

Law and Psychiatry.

Mr Ross:

American Politics.

Urban Politics.

Journal Club. Students are expected to attend the Journal Club. This meets from time to time during the year to discuss research in progress, recent books and other topics of scholarly interest.

SELECTED UNDERGRADUATE COURSES

301a. *Law and Society*: Miss Leighton.

302b. *Law, Policy and Personality*: Miss Leighton.

303a. *Problems in International Politics*: Mr Kennedy.

[304b. *West European Integration*: Mr Frye.]

[306b. *The Problem of Power in Contemporary Society*: Mr Baratz.]

[308a. *American Political Theory*.]

309b. *Selected Topics in Modern Political Thought*: Mr Frye.

310a. *Problems in Comparative Politics*: Mr Frye.

312b. *China and Japan: Problems of Modernization*: Mr Kennedy.

[313b. *Problems in Constitutional Law*.]

[315b. *American Bureaucracy*.]

316b. *Selected Topics in Urban Politics*: Mr Ross.

Psychology

Professors: Richard C. Gonzalez PHD *Chairman*

Morton E. Bitterman PHD¹

Rachel D. Cox PHD

Associate Professors: Robert S. Davidon PHD

Matthew Yarczower PHD

Assistant Professor: Earl Thomas PHD

Visiting Lecturers: Robert E. Lana PHD

Larry Stein PHD

Herbert N. Weissman PHD

Prerequisites. Undergraduate training in Psychology is recommended, but outstanding applicants with training only in related fields may be accepted. Students who have not majored in Psychology as undergraduates may find it necessary to devote a substantial portion of the first year to undergraduate courses. All applicants residing in the United States at the time of the application must submit a score on the Miller Analogies Test and on the Aptitude Test and Advanced Test of the Graduate Record Examinations.

Major and Allied Subjects. The orientation in the various fields is experimental, and there are no facilities for clinical training. Work in Psychology may be coordinated with work in one of the following allied areas: Anthropology, Biology, Chemistry, Mathematics, Philosophy and Physics. Students interested primarily in Child Psychology normally major in Education and Child Development.

Language Requirements. Candidates for the M.A. must pass an examination in one of the following languages: French, German, Russian. Candidates for the Ph.D. must pass examinations in two of the three languages. In special cases, Italian or Spanish may be offered as one of the two languages.

Program and Examinations for the M.A. The program of work must include three units (six one-semester seminars or courses), which usually will be chosen from the group of seminars and courses listed below. Sometime before final approval of the Master's paper, each candidate must pass a written examination in Statistics. The Final Oral Examination, one hour in length, deals with the Master's paper and related topics.

Program and Examination for the Ph.D. Candidates are expected to devote a large portion of their time to supervised research. Each must pass a written examination in Statistics. The Preliminary Ex-

¹ On leave, 1968-69.

amination consists of written papers in the four areas listed below under the heading of Graduate Seminars, or, with the approval of the Department, in three of those areas and in one of the allied subjects listed above. The Final Oral Examination deals with the dissertation and the field in which it was written.

For general degree requirements for the M.A. and the Ph.D., see pages 12-14.

GRADUATE SEMINARS

Seminars are offered in the following four areas:

Comparative Psychology

Learning

Sensory Processes and Perception

Brain Mechanisms

Statistics (Graduate Course)

SELECTED UNDERGRADUATE COURSES

201a. *Animal Learning*: Mr Gonzalez, Mr Yarczower.

201b. *Human Learning*: Mr Gonzalez.

202a. *Experimental Methods and Statistics*: Mr Davidon.

301a. *Central Nervous System and Behavior*: Mr Thomas.

301b. *Sensory Processes*: Mr Thomas.

305a. *Perception*: Mr Davidon.

306b. *Psychological Measurement*: Mr Davidon.

Russian

Professor: Frances de Graaff PHD *Chairman*

Assistant Professors: Irene Nagurski PHD

Ruth L. Pearce PHD

Professor of Philosophy: George L. Kline PHD

Prerequisites. An undergraduate major or minor in Russian with knowledge of Russian Literature and ability to read and speak Russian.

Allied Subjects. Any language or literature, European History, Political Science.

BRYN MAWR COLLEGE

Language Requirements. For the M.A., French or German. For the Ph.D., French, German and one Slavic language besides Russian.

Program and Examination for the M.A. Three units of work in Russian or in Russian and an allied field. The Final Examination consists of a three-hour written examination and an oral examination of one hour.

Examination for the Ph.D. The Preliminary Examination consists of four written papers, one of which must be taken in an allied field, and an oral examination. The Final Examination will cover the field of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 12-14.

SEMINARS

Seminars offered are selected from the following:

Miss de Graaff:

Serbo-Croatian Language and Literature.
Pushkin and Lermontov.
Chekhov and Gorki.

Miss Nagurski:

Polish Language and Literature.
Tolstoy and Turgenev.

Mrs Pearce:

History of the Russian Language.
Old Church Slavonic.
Advanced Russian Grammar.

Mr Kline:

Russian Philosophy.

SELECTED UNDERGRADUATE COURSES

- 201. *Readings in Russian Literature:* Miss Nagurski.
- 302. *Pushkin and His Time:* Miss de Graaff.
- [303. *Russian Literature of the Twentieth Century:*
Miss de Graaff.]

Social Work and Social Research

The Carola Woerishoffer Graduate Department of Social Work and Social Research

Professors: Bernard Ross PHD
Director of the Department

Philip Lichtenberg PHD
Katherine D. K. Lower PHD
Martin Rein PHD

Associate Professors: Jean Haring DSW
Jane C. Kronick PHD¹
Jeanne C. Pollock MSW²
William W. Vosburgh PHD³
Greta Zybon DSW

Assistant Professors: Merle Broberg MSS
Ronald M. Feinstein MSW

Visiting Lecturers: Philip Sagi PHD
John H. Vanderzel PHD

Lecturers: Ivy Bennett MSW
Dolores Melching MA
Ruth O. Stallfort MS
Alice Whiting MSW
Marilyn Woods PHD

Instructor: Dolores G. Norton MSS

Professor of Education and Psychology: Rachel D. Cox PHD

Professor of Sociology: Eugene V. Schneider PHD

The degrees of Doctor of Philosophy and Master of Social Service are awarded in the Department. The program for the degree of Master of Social Service is described on page 14. The statement here refers to the Ph.D. in Social Work and Social Research. For full information, including courses offered, write to the Director, 815 New Gulph Road, Bryn Mawr, Pennsylvania 19010.

¹ On leave, 1968-69.

² On leave, semester I, 1968-69.

³ On leave, semester II, 1968-69.

The curriculum for the Ph.D. degree includes the following areas of study: Social Welfare, Theory in Social Work Practice, Social and Behavioral Sciences, and Social Research.

Preparation in these four areas is implemented through required courses, accounting for about one half of the program; through electives that are considered pertinent to individual interests, which may be taken in other departments within the College, or at other colleges or universities; and through special experiences that are directed toward specific career goals, including teaching and research assistantships. Candidates select a major field within one of the four areas of the curriculum and allied fields from the other areas. Qualified students participate in research under the direction of members of the faculty.

Prerequisites. Applicants for the Ph.D. are expected to hold a Master's degree from an accredited school of social work. Successful experience in social work practice after this degree is valued but in certain situations may not be required.

Language Requirements. A reading knowledge of one modern foreign language is required. The preferred language is French but in special cases, with the approval of the Department, another language may be substituted.

General Requirements. The program of study is individually planned to cover major and allied fields. Two academic years of full-time study encompassing fourteen semester courses will normally be suggested. The Preliminary Examination in major and allied fields consists of four written papers and an oral examination testing the candidate's general knowledge of the fields. The Final Examination which is oral is devoted to the subject of the dissertation.

Sociology

Professor: Eugene V. Schneider PHD *Chairman*

Assistant Professor: Judith R. Porter PHD

Visiting Lecturer: A. Paul Hare PHD

Associate Professor of Social Work: Jane C. Kronick PHD¹

Prerequisites. A good undergraduate preparation in Sociology, or some closely related social science is desirable. Students whose undergraduate training is not entirely adequate may be required

¹ On leave, 1968-69.

to take certain undergraduate courses. Advanced undergraduate courses can usually be taken for graduate credit.

Major and Allied Subjects. Students are encouraged to take some work in allied fields: Anthropology, Economics, Psychology, Political Science, Philosophy, History and Statistics. In addition, courses in Sociology and allied subjects may be taken at the University of Pennsylvania under the terms of the Reciprocal Plan.

Language and Statistics Requirement. Candidates for the M.A. must offer one modern language and Statistics. Candidates for the Ph.D. degree must offer two modern foreign languages (usually French and German) or one modern foreign language and Statistics. The statistics requirement will be tested by the Department, or may be met by passing a graduate course in Statistics at a satisfactory level.

Program and Examination for the M.A. The program consists of three units of work. The Final Examination may consist of one four-hour written paper, or one three-hour written paper and an oral examination of one hour.

Program and Examination for the Ph.D. The Preliminary Examination for candidates for the Ph.D. will consist of four three-hour written papers and an oral examination of one hour. These examinations will be in General Sociology, Sociological Theory, and two special fields, one of which may be an allied field. The Final Examination will cover the field of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 12-14.

SEMINARS

Seminars will be given in special branches of Sociology, such as:

<i>Sociological Theory</i>	<i>Sociology of Knowledge</i>
<i>Social Stratification</i>	<i>Industrial Sociology</i>
<i>Sociology of Religion</i>	<i>Race Relations</i>
<i>Personality and</i>	<i>Sociology of Poverty</i>
<i>Social Structure</i>	

SELECTED UNDERGRADUATE COURSES

207a. *Race Relations*: Mrs Porter.

208b. *Personality and Social Structure*: Mr Schneider.

212b. *Sociology of Poverty*: Mrs Porter.

302a. *Social Theory*: Mr Schneider.

Spanish

Professor: Joaquín González Muela *D en FL*

Associate Professor: Willard F. King *PHD Chairman*

Assistant Professors: Eleanor K. Paucker *PHD*

Phyllis Turnbull *D en FL*

Dean of the College: Dorothy Nepper Marshall *PHD*

Professor of Philosophy: José María Ferrater Mora *Lic FL*

Prerequisites. An undergraduate major in Spanish; representative reading from Spanish Literature of the Middle Ages, Golden Age and Contemporary Period. Spanish-American Literature may be offered in addition. Applicants for admission in Spanish are asked to submit scores in the Aptitude Test and Advanced Test of the Graduate Record Examinations.

Allied Subjects. Any literature, ancient or modern, including Mediaeval Latin Literature; European or Spanish-American History; Classical or Romance Philology; Spanish-American Literature.

Language Requirements. For the M.A. either German or one Romance language other than Spanish. For the Ph.D. German and French; in special cases the Department may accept other languages. The Ph.D. candidate's preparation must give evidence of adequate knowledge of Latin; if it does not, Latin must be included in the graduate program.

Program and Examination for the M.A. The program consists of three units of graduate work in Spanish or two units of graduate work in Spanish and one other in an allied field. Before admission to the Final Examination candidates must prove their ability to speak Spanish. The Final Examination consists of a three-hour written part and an oral of one hour.

Examinations for the Ph.D. The Preliminary Examination consists of four written papers, one of which must be taken in an allied field, and an oral examination. Suitable related fields should be discussed with the member of the Department with whom the candidate plans to work on the dissertation. The Final Examination will cover the field of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 12-14.

SEMINARS

The seminars are arranged to allow the widest possible choice for students over a two- or three-year period of study. Normally the same seminar will not be given two years in succession. Two from among the following will be given every year.

Members of the Department.

[*Ideological Currents in Renaissance Spain.*]

[*The History of the Spanish Language* (semester I).]

[*The Mediaeval Castilian Epic and Lyric* (semester II).]

[*Prose Fiction of the Golden Ages.*

From *La Celestina* to *El Criticón* (semesters I and II).]

The Poetry of the Golden Age.

The evolution of Spanish poetry from Garcilaso to Góngora (semester I).

Problems in the Golden Age Theater.

Lope de Vega and the Comedia Nueva (semester I).

Tinso and Calderón (semester II).

Studies in Modern Spanish Literature.

Poetry and Drama of Romanticism (semester II).

Studies in Spanish-American Literature.

The novel of Borges, Contázar, and Carpentier (semester I).

Modernismo (semester II).

SELECTED UNDERGRADUATE COURSES

[302a. *Mediaeval Spanish Literature*: Miss Turnbull.]

[303a. *Modern Novel in Spain*: Mrs King.]

[303b. *Modern Spanish Poetry*: Mr González Muela.]

304a. *Drama of the Golden Age*: Mrs King.

304b. *The Age of Cervantes*: Mrs King.

Fees

Application fee (citizens of the United States and Canada) \$10.

Tuition

Full-time students: \$1500 a year, payable one half early in the first semester and the other half early in the second semester.

Part-time students: \$500 a year (or \$250 a semester) for each seminar, course, or unit of supervised work.

Auditors: Fees for auditors are the same as those for students registered in courses for credit.

Continuing enrollment for Ph.D. candidates: Candidates who have completed the required academic units and who are continuing independent work on their dissertations either in the vicinity of the Graduate School or in other places must retain their enrollment and degree candidacy by registering for one or more units each semester or by paying a continuing enrollment fee of \$25 each semester.

Students may, with the approval of their department, apply to the Graduate Committee for a leave of absence for one or more semesters. No fee is required while on leave of absence.

Laboratory fees

Students taking undergraduate courses in the sciences (not for graduate credit) are charged laboratory fees at \$15 per course per semester.

Fees for Ph.D. candidates using Bryn Mawr College laboratories for dissertation research will be determined in consultation with each department.

Graduation fee for all graduate degrees \$25.

Payment of Fees

No reduction of the tuition fee will be made on account of absence, withdrawal after classes have begun, dismissal or for any other reason, except involuntary service in the armed forces of the United States.

Students whose fees are not paid before November 15 in the first semester and before March 15 in the second semester will not be permitted to continue in residence or to attend classes. Degrees will not be awarded to any student owing money to the College, Book Shop, or other college facility.

The Education Plan is available for those who prefer to pay fees in monthly installments.

SUMMARY OF EXPENSES FOR THE ACADEMIC YEAR

Regular

Tuition Fee	\$1500
Residence in the Graduate Residence Center	1000

Contingent

Continuing Enrollment Fee	50
Dispensary Fee	25
Health Insurance (foreign students)	45
Social Work Field Instruction Fee	20
Laboratory Fee for undergraduate courses (not for graduate credit), per course	30
Graduation Fee	25
Charge for microfilming Ph.D. dissertation	30
Room on campus Christmas and spring vacations (\$1.50 per day—maximum 30 days)	45

Exclusion

The College reserves the right to exclude at any time students whose academic standing is unsatisfactory or whose conduct renders them undesirable members of the college community. In such cases fees due or paid in advance will not be refunded or remitted in whole or in part; fellowships and scholarships will be cancelled.

Fellowships and Graduate Scholarships

Fellowships and graduate scholarships are provided from the general funds of the College, from the gifts of generous donors, from government agencies and private foundations. Many of these awards are available to both men and women. Some may be granted only to women. Fellowships carry a stipend of \$3000 and are available only to students who are citizens of the United States or Canada and who have completed one full year of graduate work. Graduate scholarships have a value of \$2500 a year and may be held by citizens and non-citizens and by students at all levels of graduate work. Other awards vary in value.

Application

Application from citizens of the United States and Canada should be made to the Dean of the Graduate School and must be filed complete not later than February 15. The documents are the same as for admission. In writing for forms applicants should state their fields of concentration. Applications from foreign students must be received not later than January 25. Test of English as a Foreign Language score must be included. Therefore this test, or an appropriate substitute, must be taken the previous October.

All awards will be announced in March.

Fellowships in the Award or Nomination of the College

Bryn Mawr College Fellowships of \$3000 each are offered annually in Anthropology, Biology, Chemistry, Classical and Near Eastern Archaeology, Economics, Education and Child Development, English, French, Geology, German, Greek, History, History and Philosophy of Science, History of Art, Latin, Mathematics, Mediaeval Studies, Music, Philosophy, Physics, Political Science, Psychology, Russian, Social Work and Social Research, Sociology, and Spanish.

Marion Louise Ament Fellowship. Graduate fellowships in Spanish are occasionally awarded from this fund established in 1966 in honor of Marion Neustadt, Class of 1944.

The Theodore N. Ely Fund. A fellowship or scholarship in Art or Archaeology is awarded to a woman graduate student from the interest on this fund, which was established in 1959 by bequest of Katrina Ely Tiffany, Class of 1897.

The Margaret Gilman Fund. A fellowship or scholarship in French, open to both men and women, is awarded from the interest on this fund, which was established in 1958 by bequest of the late Margaret Gilman, Professor of French at Bryn Mawr College.

The Howard Lehman Goodhart Fellowship is awarded to an advanced student, man or woman, in Mediaeval Studies.

The Helen Schaeffer Huff Memorial Research Fellowship is awarded for a year of research work in Physics or Chemistry at Bryn Mawr College. Candidates must be women who have demonstrated their ability for research. If other qualifications are equal among a number of candidates, preference will be given to a woman whose field of research overlaps the fields of Chemistry and Physics. This fellowship is normally awarded to a post-doctoral candidate to enable her to continue her research program. In such cases the stipend will be \$4500. In exceptional cases, candidates engaged in important research who have not completed the work for the doctorate will be considered. For such students the stipend will be less, the amount to be determined on the basis of the candidate's qualifications.

The Helen Schaeffer Huff Memorial Research Fellow has no duties except those connected with her own research, but she may arrange with the department in which she is working to do a small amount of teaching if she so desires.

The S. Maude Kaemmerling Scholarship was established in 1959 by a gift from the estate of S. Maude Kaemmerling and increased by a gift in 1965. The income on the fund is to be used for graduate scholarships and fellowships for men and women.

The Samuel H. Kress Foundation Fellowships in varying amounts are awarded to advanced men and women graduate students in History of Art.

The Katharine Elizabeth McBride Fellowship. In the 75th Anniversary Year a fund for a graduate fellowship in honor of Katharine Elizabeth McBride, President of the College, was established by gifts from a few friends of Miss McBride among the alumnae. The endowment of this fellowship was increased by a gift from the Class of 1925 on its 40th reunion. The fellowship is awarded in any department to a woman candidate for the Ph.D. degree who is about to complete two years or more of graduate work.

National Defense Graduate Fellowships under Title IV of the National Defense Education Act are available to citizens of the United States who plan to work for the Ph.D. degree and to enter a career of college teaching. These fellowships, designed primarily for first- or second-year students, men and women, may be held in the Depart-

ments of Biology, Chemistry, Classical and Near Eastern Archaeology, English, French, German, Greek, History of Art, Latin, Mathematics, Philosophy, Psychology and Spanish.

National Science Foundation Graduate Traineeships. Traineeships are available to first-year and advanced graduate students, men and women, in mathematics, the natural sciences and certain fields in the social sciences.

The Emmy Noether Fellowship was founded by gifts from many donors in memory of Emmy Noether who came to Bryn Mawr College from Germany in 1933 and who died April 14, 1935. It is open to women in the United States and in foreign countries who are advanced graduate students of Mathematics. It is awarded by the Department of Mathematics in Bryn Mawr College, and may be used, subject to the approval of the Department, at any institution in the United States or in a foreign country.

The Ida H. Ogilvie Fellowships in Geology are awarded to men and women each year from part of the income of the Ida H. Ogilvie Fund, which was established in 1965 through the bequest of Dr. Ogilvie, a member of the Class of 1896.

The Max Richter Fellowship Fund was established in 1962 and increased in 1965 by gifts from the Trustees of the Richter Memorial Foundation. Income from the endowment provides two or more fellowships to advanced students interested in political affairs.

The Mildred Clarke Pressinger von Kienbusch Fellowship was established in 1964 by a gift in honor of Mildred Clarke Pressinger von Kienbusch of the Class of 1909. The income on this fund is to be used for a woman graduate student working toward the doctorate. This award may be made to a beginning graduate student.

Scholarships and Fellowships under the Plan for the Coordination of the Sciences. The departments of the natural sciences and mathematics administer a fund for the Coordination of the Sciences, given to the College in 1935 by the Carnegie Corporation of New York. Its purpose is to encourage and facilitate teaching and research in fields such as biochemistry, biophysics, geochemistry, geophysics and psychophysics.

From this fund, the Committee for the Coordination of the Sciences awards fellowships, scholarships, assistantships, post-doctoral research fellowships or other grants as seem appropriate.

Fellows by Courtesy. Fellows who continue their studies at the College after the expiration of their fellowships may, by a vote of the Directors, receive the rank of Fellow by Courtesy.

Travelling Fellowships

The Fanny Bullock Workman Travelling Fellowship for a year of study or research abroad was established in 1927 by bequest of

Fanny Bullock Workman and by gift of her husband, Dr W. Hunter Workman. It is awarded to a woman who is a candidate for the degree of Doctor of Philosophy at Bryn Mawr College and who could not have the advantages of such a year without assistance. At the discretion of the Faculty, the fellowship for any one year may be divided between two students, or the same student may hold the fellowship for more than one year.

The Anna Ottendorfer Memorial Research Fellowship in Teutonic Philology and German Language and Literature, founded in 1907 by Mrs Anna Woerishoffer in memory of her mother, is to be applied to the expenses of study and residence for one year at a German university. It is awarded annually to a candidate who has completed at least one year of graduate study at Bryn Mawr College, and who shows ability to conduct independent investigations in the fields of Teutonic Philology or German Literature. The choice of a university is determined by the holder's preference, subject to the approval of the Faculty.

The Ella Riegel Fellowship or Scholarship in Classical Archaeology was founded in 1937 by bequest of Ella Riegel. It is awarded on the recommendation of the Department of Classical and Near Eastern Archaeology to advanced students in this subject. It is given for study abroad but may, at the discretion of the Department, be used at Bryn Mawr College.

Training Grants

Training Grants. The Department of Biology has in its award a training grant from the United States Public Health Service for study in the area of infectious diseases, which provides stipends for graduate students.

Fellowships and Scholarships in Social Work and Social Research

A variety of financial resources is available for students in the Department of Social Work and Social Research. The terms of the awards differ and will be discussed with the applicant at the time of the admission interview. Application for awards other than those to Bryn Mawr College may be made up to May 1 preceding the academic year for which they are desired.

Bryn Mawr College Fellowships and Scholarships. *The Carola Woerishoffer Fellowship*, value \$3000, is open to women who have completed a full year of graduate work and is intended for a student in the doctoral program. *The Carola Woerishoffer Scholarship*,

\$2500, is open to women who hold the A.B. degree or its equivalent from a college or university of recognized standing.

United States Department of Health, Education, and Welfare. The National Institute of Mental Health, the Vocational Rehabilitation Agency and the Children's Bureau make available to the Department funds for traineeships which cover tuition and an annual stipend to be paid to the student. These traineeships vary with the year of study and the particular programs for which they are provided. The career goals of the student are an important factor in the awarding of these traineeships to individual students. For new students, application for such traineeships should be made at time of application for admission. No application form for these traineeships is necessary. Applicants should, however, state their career goals and their financial needs at the time of application. These may then be discussed during the admission interview.

Grants from the Commonwealth of Pennsylvania. The Commonwealth of Pennsylvania has several offices of the Department of Public Welfare, including Mental Health, Public Assistance and the Office for Children and Youth. A commitment to the state program through which the student is financed is required. Early application is desirable. The Department will assist the student in this at the time of the admission interview. Information may also be obtained from the Department of Public Welfare of the Commonwealth of Pennsylvania, Harrisburg, Pennsylvania. Other states have similar educational programs.

Graduate Scholarships

Bryn Mawr College Graduate Scholarships of \$2500 each are offered annually to men and women for work in any department of the Graduate School. Women holders of these scholarships in their first year of graduate work at Bryn Mawr are required to live at the Graduate Residence Center. Others may elect to do so. The stipend covers tuition and residence charges. Scholars who have had a full year at Bryn Mawr may live off campus. In that case tuition and dispensary fees will be deducted from the stipend and the balance paid the student.

Alumnae Association Scholarships. Alumnae Association Scholarships are provided from the contributions of former graduate students to the Alumnae Fund. District III, Western Pennsylvania Scholarship Committee, and the Bryn Mawr College Canadian Scholarship Committee each assist in the support of a Bryn Mawr scholar.

Tuition Scholarships are available to men and women whose homes are in the neighborhood.

Scholarships for Foreign Students. The Marguerite N. Farley Scholarships for Foreign Students, of the value of \$2500, are offered to students from any country outside the United States and Canada. Five scholarships are available.

A Special British Scholarship, of the value of \$2500, is awarded to students from the United Kingdom sponsored by The English-Speaking Union.

Special Foreign Scholarships for French, German, Italian and Spanish, of \$2600 each, have been established for students whose languages form part of the Bryn Mawr curriculum. Holders of these scholarships are asked to devote four or five hours a week to supervised teaching or other assistance in the appropriate language department. The Special Scholarship for French has been named in memory of Marcelle Pardé who was a member of the French Department of Bryn Mawr College between 1919 and 1929. The Special Scholarship for Spanish has been named in memory of Miguel Catalan, distinguished Spanish physicist and friend of Bryn Mawr.

These scholarships are designated for foreign students who have excelled in their university studies. Applicants must have had three or four years of university training. Each scholarship carries a stipend which covers full tuition and residence in the Graduate Residence Center during the academic year. (Vacations are not included and students will need to provide additional funds for these and for other non-college expenses.) Scholarship holders are expected to carry a full program of graduate work and to attend regularly the courses for which they are registered. Work is given in seminars or small discussion groups in which the students, as well as the instructor, actively participate. It is essential, therefore, that the student be able not only to read and write English, but to understand it and speak it fluently.

Duties of Fellows and Scholars

Fellows and Graduate Scholars are required to carry a full academic program at Bryn Mawr College. They are expected to attend official functions and to perform a limited amount of service for the College. Fellows are not permitted to accept other appointments. Scholars, with the permission of the Dean of the Graduate School, may undertake a limited amount of paid work. Each Travelling Fellow is asked to present a written report of the work done during the fellowship year. This report should be sent about the first of March to the Dean of the Graduate School for transmittal to the student's department.

Graduate Assistantships

Teaching Assistantships are available in many Departments. These positions carry salaries of \$2100-\$2300 for half-time work, \$1400-\$1550 for one-third time work, and include tuition without fee. The duties differ with departments. In departments of science, assistantships provide teaching and laboratory experience.

Research Assistantships are available in the Departments of Biology, Chemistry, Physics, Psychology and Social Work. The Department of Geology offers the J. H. Fitzgerald Dunning Research Assistantship.

Tuition Grants for Part-time Students

A grant from the Samuel S. Fels Fund for three years, beginning in 1967, has increased the funds available to assist men and women students who are unable to undertake full-time graduate work. Awards will be made, primarily for tuition, on the basis of high academic standing. Applications are due April 1 for awards to be announced in the late spring. Forms are available at the Graduate Office.

Graduate Prize

The Susan B. Anthony Memorial Prize, commemorating the great work of Susan B. Anthony for women, was founded by her friend, Anna Howard Shaw, and her niece, Lucy E. Anthony. It is offered from time to time to a graduate student at Bryn Mawr College who has published or submitted in final form for publication the best study dealing with the industrial, social, economic or political position of women. The award is made by the Committee of which the President of the College is chairman.

Loan Funds

National Defense Student Loan Program—NDEA Title II. Loans up to \$2500 a year are available to qualified graduate students under this Title. They are open to half-time as well as full-time students. Partial loan cancellation is offered to prospective teachers. Applications are due April 1 for consideration in the spring and September 1 for loans to be made in the early fall.

The Students' Loan Fund of the Alumnae Association of Bryn Mawr College was founded by the Class of 1890 for the use of students who need to borrow money in order to continue their college work and for the purpose of receiving contributions, no matter how small, from those who are interested in helping students obtain an education. The fund is managed by the Alumnae Scholarships and Loan Fund Committee.

Loans may be used for any purpose approved by the Committee, who strongly recommend the borrowing of small sums to relieve undue financial pressure, or to meet special emergencies. As a rule, money is not loaned to students in their first semester of graduate work. Not more than \$500 may be borrowed by a student in any one year, except under extraordinary circumstances. The total for four years must not exceed \$1500.

While the student is in College no interest is charged; after the student leaves College the interest rate is three per cent. The entire principal must be repaid within five years from the time the student leaves College at the rate of twenty per cent each year. Students who wish to borrow from the Loan Fund may obtain application blanks for this purpose from the Alumnae Office, Wyndham, Bryn Mawr, Pennsylvania.

The Mary Hill Swope Loan Fund was established June 1, 1945 by a gift of Mrs. Gerard Swope (Mary Hill, A.B. 1896) to assist in the education of young women attending Bryn Mawr College. Except under extraordinary circumstances, the maximum amount which may be borrowed annually is \$500. No interest is charged while the student is at Bryn Mawr. From September 1, 1964, the interest rate is three per cent, to be paid after the student leaves Bryn Mawr. The principal is to be repaid within five years from the time the student leaves Bryn Mawr at the rate of twenty per cent each year.

The Gerard and Mary Hill Swope Loan Fund was established in 1962 and is available for men and women. The maximum amount which can be borrowed for any given academic year is \$500. Arrangement for repayment is similar to that for the Mary Hill Swope Loan Fund, listed above.

The Bureau of Recommendations

The College conducts a Bureau of Recommendations for alumnae, students, and former students. This Bureau offers an employment service for permanent, temporary, and part-time positions; gives assistance in choosing a vocation; and acts as a clearing house for letters of recommendation for those who have registered with the Bureau. These letters will be sent, upon request, to prospective employers, placement offices of other colleges, and employment agencies.

Government regulations severely limit the employment of students of foreign citizenship in the United States.

The Graduate Residence Center

Residence for about forty-five graduate students is provided in the Graduate Residence Center which lies at the north end of the campus. Meals and health service are included in the residence charge. There is a separate bedroom for each student, furnished except for rugs and curtains; bed linen, including blankets, is provided but students should bring towels. Because of college fire regulations, smoking is not permitted in the bedrooms but there is a smoker on each floor. The dining room, which seats sixty, is open to students living outside the Center who wish to lunch or dine there.

Application for a room should be made as early as possible. A room contract, which will be sent upon request, must be signed and returned with a deposit of ten dollars to the Dean of the Graduate School. The deposit will be deducted from the residence fee; it will be refunded only if the student has been called into service in the armed forces of the United States.

A student who has reserved a room in the Graduate Residence Center will be held responsible for the residence charge unless notice of withdrawal is sent in writing to the Dean of the Graduate School before September 1, or unless he is drafted for military service.

The regular charge for residence (room, board and health service) for graduate students is \$1000 a year, payable one half early in the first semester and the other half early in the second. Allowance cannot be made for dietary restrictions.

Residence in the Center is for the academic year only—from the opening of College in the fall until Commencement Day. One of the residence halls is kept open during Christmas and spring vacations where students may stay at a charge of \$1.50 a day (meals not included). Baggage will be accepted at the College after September 2. It should be sent prepaid, addressed to the Graduate Residence Center, and marked with the owner's name.

Health

The College maintains a modern 22-bed Infirmary with a full staff of physicians and nurses. The college physicians may be consulted without charge by students residing in the Graduate Center and students living off campus who have paid the dispensary fee. Specialists practicing in Bryn Mawr and Philadelphia serve as consulting physicians to the College. If consultation is necessary, the student must meet the expense. The Infirmary is open when College is in session and in the spring vacation. It is closed during the Christmas vacation.

The residence charge paid by graduate students living in the Graduate Residence Center entitles them to treatment in the College dispensary, and to care in the Infirmary for seven days (not necessarily consecutive) during the year, to attendance by the college physicians during this time, and to nursing, provided the illness is not contagious and is not sufficiently serious to require the services of a special nurse. After the seven day period, the fee is \$15.00 for each day in the Infirmary. In case of contagious disease, special nursing is obligatory and the student must meet the expense.

Graduate students who do not live in the Graduate Residence Center may pay a \$25.00 fee which entitles them to unlimited dispensary care and consultation with the college physicians. Graduate students who do not live in the Graduate Residence Center are not given bed care in the Infirmary.

The College reserves the right, if members of the family cannot be reached, to make decisions concerning emergency operations or other matters of health in regard to the students.

Certificates Required

All graduate students, whether resident or non-resident, must file a physician's certificate stating that they have been vaccinated against smallpox during the three-year period prior to entering the Graduate School and exhibited a typical or immune reaction to this vaccination. Resident students who have not filed this certificate will be vaccinated on arrival and charged a fee of one dollar. Non-resident students will not be permitted to attend classes without this certificate. There is no exception to this rule.

In addition to the above, students applying for residence in the Graduate Residence Center are asked to submit reports of recent

medical and ophthalmological examinations signed by the appropriate physicians; evidence of immunization within three years of entrance against diphtheria and tetanus, by toxoid, and against poliomyelitis. A report of a Mantoux test is also required; if this is positive, the results of a chest X-ray must be submitted. The forms for these various certificates are supplied by the Office of the Dean of the Graduate School and are to be returned to the same office. If they have not been received by the time the student arrives in Bryn Mawr, the tests will be done here at the student's expense.

Any student with a health problem identified by his personal physician on the entering health form will be evaluated by the College Physician who will initiate such health supervision or consultation as is necessary.

Insurance

All graduate students of Bryn Mawr College are entitled to subscribe to the Student's Reimbursement Plan, which provides for a substantial proportion of hospital care and medical fees. The premium for this insurance is \$27.80 for a full year starting October 1. Students should apply to the Comptroller of the College.

Foreign Students. The College also makes available a policy which provides fuller coverage of medical, surgical, and hospital costs. This insurance is required of all students whose permanent residence is not in the United States unless they have equally complete protection of another kind effective in the United States. The cost for students under age 30 is about \$45.00 for a twelve-month period, starting in mid-September.

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Ernst Berliner PHD (Harvard University) *W. Alton Jones Professor of Chemistry*

¹ On leave, 1968-69.

² On leave, semester I, 1968-69.

Frances Bondhus Berliner PHD (Bryn Mawr College) *Part-time Lecturer in Chemistry*

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Robert S. Davidon PHD (University of Pennsylvania) *Associate Professor of Psychology*

¹ On leave, 1968-69.

² On leave, semester I, 1968-69.

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Ellen Ginsberg PHD (University of Chicago) *Assistant Professor of French*

¹ On leave, semester II, 1968-69.

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- Joaquin González Muela D en F L (University of Madrid) *Professor of Spanish*
- Jane C. Goodale PHD (University of Pennsylvania) *Assistant Professor of Anthropology*
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- Howard C. Kee PHD (Yale University) *Rufus Jones Professor-elect of History of Religion*
- Melville T. Kennedy, Jr. PHD (Harvard University) *Associate Professor of Political Science*

¹ On leave, 1968-69.

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Duncan Keppie PHD (University of Glasgow) *Assistant Professor of Geology*

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Joan L. Klein PHD (Radcliffe College) *Part-time Lecturer in English*

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Catherine Lafarge PHD (Yale University) *Assistant Professor of French*

Robert E. Lana PHD (University of Maryland) *Visiting Lecturer in Psychology, semester II*

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Mabel L. Lang PHD (Bryn Mawr College) *Professor of Greek*

Richmond Lattimore PHD (University of Illinois) LITD *Paul Shorey Professor of Greek*¹

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Peter J. Leach MFA (Yale University) *Assistant Professor of English*

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Danuta S. Lloyd MA (University of Pennsylvania) *Part-time Lecturer in German*

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Isabel Gamble MacCaffrey PHD (Radcliffe College) *Professor of English*¹

Frank B. Mallory PHD (California Institute of Technology) *Associate Professor of Chemistry*

Helen Taft Manning PHD (Yale University) *Professor Emeritus of History*

¹ On leave, 1968-69.

² On partial leave, 1968-69.

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- Antonio Mastrobuono MA (Catholic University of America) *Lecturer in Italian*
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- Susan E. Maxfield MS (Yale University) *Associate Professor of Education and Child Development and Director of the Thorne School*
- Katharine Elizabeth McBride PHD (Bryn Mawr College) *President of the College*
- James McCaughey MLITT (University of Dublin) *Instructor-elect in Greek*
- Jane R. McConnell PHD (Bryn Mawr College) *Part-time Lecturer in Biology*
- Cornelia Lynde Meigs AB (Bryn Mawr College) *Professor Emeritus of English Composition*
- Dolores E. Melching MA (University of Chicago) *Part-time Lecturer in Social Work and Social Research*
- Machteld Mellink PHD (University of Utrecht) *Professor of Classical and Near Eastern Archaeology*
- Robert K. Meyer PHD (University of Pittsburgh) *Assistant Professor of Philosophy*
- Fritz Mezger PHD (University of Berlin) *Professor Emeritus of Germanic Philology*
- Agnes Kirsopp Michels PHD (Bryn Mawr College) *Professor of Latin*¹
- Walter C. Michels PHD (California Institute of Technology) *Marion Reilly Professor of Physics*
- Charles Mitchell MA BLITT (Oxford University) *Professor of History of Art*
- Irene Nagurski PHD (Columbia University) *Assistant Professor of Russian*
- Milton C. Nahm BLITT PHD (University of Pennsylvania) *Professor of Philosophy*
- Dolores Norton MSS (Bryn Mawr College) *Instructor in Social Work and Social Research*
- John R. Olson PHD (Iowa State University) *Assistant Professor of Physics*

¹ On leave, 1968-69.

BRYN MAWR COLLEGE

Jane M. Oppenheimer PHD (Yale University) *Class of 1897 Professor of Biology*

John C. Oxtoby MA (University of California) *Professor of Mathematics*

Harold E. Pagliaro PHD (Columbia University) *Visiting Lecturer in English, semester I*

Robert L. Patten PHD (Princeton University) *Assistant Professor of English*¹

Eleanor K. Paucker PHD (University of Pennsylvania) *Lecturer and Assistant Professor-elect of Spanish*

Ruth L. Pearce PHD (University of Pennsylvania) *Assistant Professor of Russian*

Emmy A. Pepitone PHD (University of Michigan) *Lecturer and Assistant Professor-elect of Education and Child Development*

Kyle M. Phillips, Jr. PHD (Princeton University) *Assistant Professor and Associate Professor-elect of Classical and Near Eastern Archaeology*

Jeanne C. Pollock MSW (University of Pennsylvania School of Social Work) *Associate Professor of Social Work*²

Judith R. Porter PHD (Harvard University) *Assistant Professor of Sociology*

Jean A. Potter PHD (Yale University) *Associate Professor of Philosophy*

John R. Pruett PHD (Indiana University) *Professor of Physics*

Clifford E. Ramsay PHD (University of Florida) *Assistant Professor-elect of English*

William H. Reese PHD (University of Berlin) *Director of Orchestra*

Martin Rein PHD (Brandeis University) *Associate Professor and Professor-elect of Social Work and Social Research*

Ruben E. Reina PHD (University of North Carolina) *Visiting Lecturer in Anthropology*

Brunilde Sismondo Ridgway PHD (Bryn Mawr College) *Associate Professor of Classical and Near Eastern Archaeology*

Beth M. Riser MA (Bryn Mawr College) *Part-time Instructor-elect in Education and Child Development*

William J. Roach PHD (University of Chicago) *Visiting Professor in Old French*

Caroline Robbins PHD (University of London) *Marjorie Walter Goodhart Professor of History*

Bernard Ross PHD (University of Michigan) *Professor of Social Work and Social Research*

Marc Howard Ross MA (Northwestern University) *Assistant Professor-elect of Political Science*

¹ On leave, 1968-69.

² On leave, semester I, 1968-69.

- Philip Sagi PHD (University of Minnesota) *Visiting Lecturer in Social Work and Social Research*
- Eugene V. Schneider PHD (Harvard University) *Professor of Sociology*
- Christoph E. Schweitzer PHD (Yale University) *Professor of German*
- Russell T. Scott PHD (Yale University) *Assistant Professor of Latin*
- Matthias A. Shaaber PHD (University of Pennsylvania) *Visiting Lecturer in English*
- Alain Silvera PHD (Harvard University) *Assistant Professor and Associate Professor-elect of History*¹
- Bernard S. Smith PHD (Harvard University) *Visiting Lecturer in History*
- James E. Snyder PHD (Princeton University) *Associate Professor of History of Art*¹
- Martin Avery Snyder PHD (New York University) *Assistant Professor of Mathematics*
- Faye P. Soffen PHD (University of Pennsylvania) *Lecturer and Assistant Professor-elect of Education and Child Development*²
- Arthur Colby Sprague PHD (Harvard University) *Professor Emeritus of English Literature*
- Ruth O. Stallfort MS (Simmons College School of Social Work) *Part-time Lecturer in Social Work and Social Research*
- K. Laurence Stapleton AB (Smith College) *Mary E. Garrett Alumnae Professor of English Literature*
- Isabel S. Stearns PHD (Bryn Mawr College) *Professor of Philosophy*
- Larry Stein PHD (University of Iowa) *Visiting Lecturer in Psychology, semester I*
- John David Summers MA (Yale University) *Lecturer in History of Art*
- Lily Ross Taylor PHD (Bryn Mawr College) *Professor Emeritus of Latin*
- Arnold W. Thackray PHD (Cambridge University) *Assistant Professor-elect of the History of Chemistry, on joint appointment with the University of Pennsylvania*
- Earl Thomas PHD (Yale University) *Assistant Professor of Psychology*
- Joyce Trebilcot PHD (University of California) *Teaching Resident in Philosophy*
- Phyllis Turnbull D en FL (University of Madrid) *Assistant Professor of Spanish and Advisor to Foreign Students*

¹ On leave, 1968-69.

² On leave, semester I, 1968-69.

BRYN MAWR COLLEGE

Myra L. Uhlfelder PHD (Bryn Mawr College) *Associate Professor of Latin*

John R. Vanderzell PHD (Syracuse University) *Visiting Lecturer in Social Work and Social Research, semester I*

Joseph Varimbi PHD (University of Pennsylvania) *Associate Professor of Chemistry*

William Vosburgh PHD (Yale University) *Assistant Professor and Associate Professor-elect of Social Work and Social Research¹*

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Dorothy Wyckoff PHD (Bryn Mawr College) *Professor Emeritus of Geology*

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Samuel J. McNamee BS (Temple University) *Assistant Comptroller*

¹ On leave, semester II, 1968-69.

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- Thomas N. Trucks BS (Villanova University) *Superintendent of Buildings and Grounds*
- Phyllis Turnbull D en FL (University of Madrid) *Adviser to Foreign Students and Assistant Professor of Spanish*
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- Katharine Budd Whelihan AB (Mount Holyoke College) *Assistant to the President*
- Sarah E. Wright, *Director of Halls*

Library

- Janet Margaret Agnew BLS (McGill University) MA (University of Manitoba) *Head Librarian*
- Dorothy V. McGeorge BSLS (Drexel Institute) *Order Librarian*
- Catherine E. Pabst MSLS (Drexel Institute) *Assistant in the Order Department*
- Elizabeth T. Pope MSLS (Drexel Institute) MA (University of Wisconsin) *Assistant in Cataloguing Department*
- Gertrude Reed MA (Rutgers University) *Assistant in the Circulation Department*
- Pamela G. Reilly MSLS (Drexel Institute) *Head of Circulation and Reference Department*
- Pauline Anne Taffe MSLS (Villanova University) *Assistant in Cataloguing Department*
- Cornelia A. Tucker MSLS (Louisiana State University) *Assistant in the Circulation Department*
- Yildiz van Hulsteyn MSLS (Drexel Institute) MA (Bryn Mawr College) *Librarian West Wing*
- Jane Walker BS (Simmons College) *Head of Cataloguing Department*
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Health

- Frieda W. Woodruff MD (University of Pennsylvania) *College Physician*
Irene A. Clayton MS (University of Wisconsin) *Director of Physical Education*
John F. Howkins, MD (Columbia University, College of Physicians and Surgeons) *Consulting Psychiatrist*
Howard B. Smith MD (Jefferson Medical College) *Consulting Psychiatrist*

Child Study Institute

- Rachel D. Cox PHD (University of Pennsylvania) *Director*
Eleanor Beatty MA (George Washington University) *Psychologist*
Lelia Broderson MA (Temple University) *Chief Psychologist*
Louise Brunk MSS (Bryn Mawr College) *Social Caseworker*
Gwendolyn A. Binegar MSS (Bryn Mawr College) *Caseworker*
Anna D. Emmons MS (University of Pennsylvania) *Remedial Reading Teacher*
Joel Goldstein MD (Jefferson Medical School) *Consulting Psychologist*
Constance Grant BS (University of Pennsylvania) *Remedial Reading Teacher*
Anita Grinnell MS (University of Pennsylvania) *Part-time Psychologist*
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Frederic J. Kwapien, MD (Tufts University School of Medicine) *Consulting Psychiatrist*
Marjorie Edwards MSS (Bryn Mawr College) *Social Caseworker*
Christine Patzau MSW (University of Pennsylvania School of Social Work) *Part-time Social Caseworker*
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Beatrice Schneider MSS (Bryn Mawr College) *Part-time Social Caseworker*
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Isabel Westfried MA (Bryn Mawr College) *Psychologist*

Phebe Anna Thorne School

Susan E. Maxfield MS (Yale University) *Director*

Tsu-Shan Chung BS (Tsinghua University) *Teacher*

Committees

The Graduate Committee

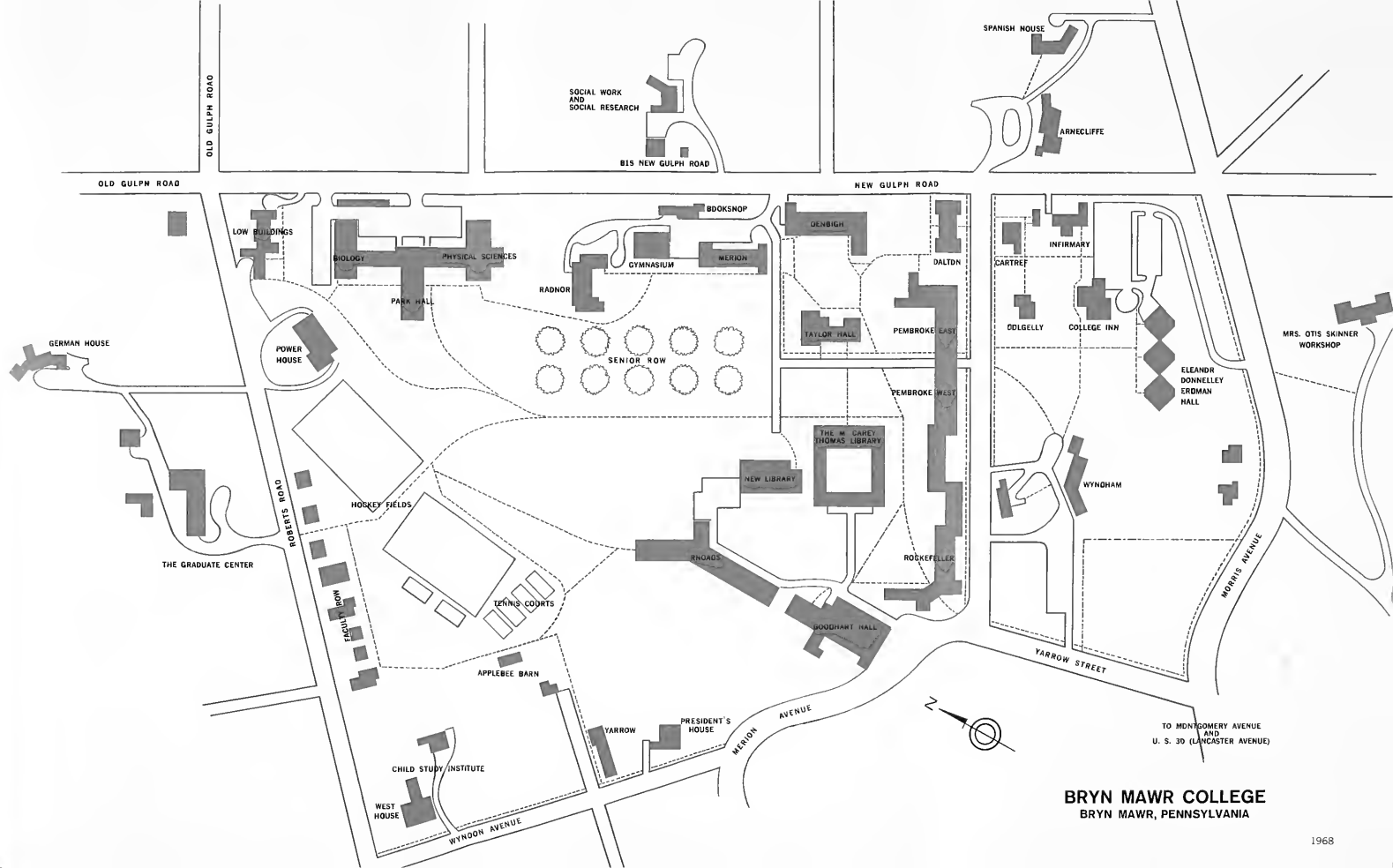
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Dean Foster, <i>Vice-chairman</i>	Mr Guggenheim
Miss Mellink	Mr Kennedy
Mr Ross	Mrs King
Mr Zimmerman	Miss Stapleton
Mr Kline	

The Graduate Scholarships Committee

Dean Foster, <i>Chairman</i>	Mr Mallory
President McBride, <i>ex-officio</i>	Mr Mitchell
Mr Rein	

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БРУН МАУР КОЛЛЕДЖ
БРУН МАУР, ПЕННСИЛЬВАНИЯ

Directions to Bryn Mawr

Bryn Mawr College is located approximately eleven miles west of Philadelphia and nine miles east of Paoli.

By air: From the Philadelphia International Airport take the airport limousine to 30th Street Station in Philadelphia and from there the Paoli Local to Bryn Mawr, or take a taxi directly to Bryn Mawr from the airport, a distance of 14 miles.

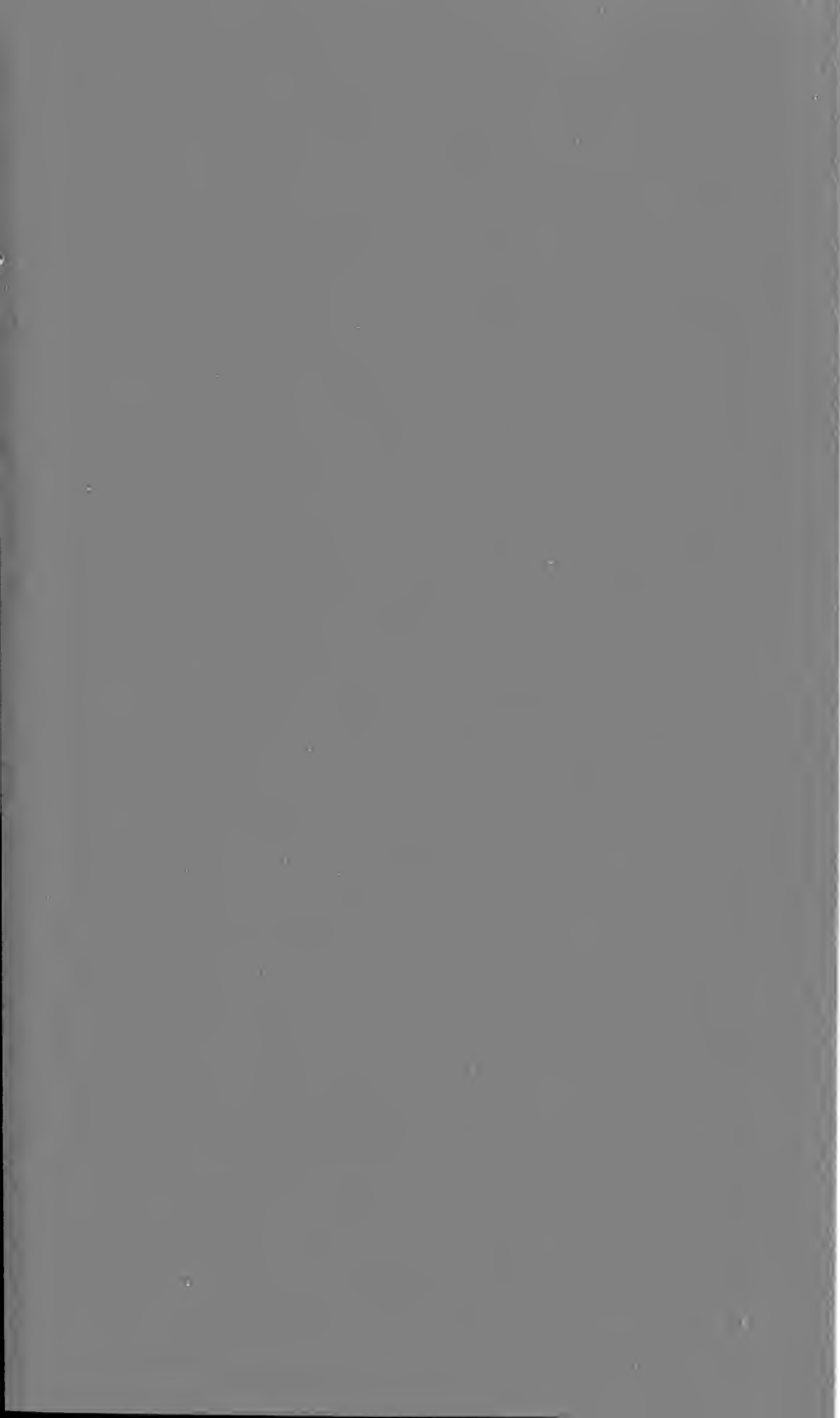
By automobile: From the east or west take U. S. 30 or the Pennsylvania Turnpike. From the Valley Forge Exit of the Turnpike, take the Schuylkill Expressway (Pa. #43—Interstate #76), turning right at exit number 36, Pa. #320, Gulph Mills, which is 3.5 miles east of the toll gate; continue into Montgomery Avenue to the town of Bryn Mawr, a distance of 4 miles from the Expressway. Turn left at the traffic light at the intersection of Morris and Montgomery Avenues and take Morris Avenue to the next traffic light. Turn left on to New Gulph Road.

Visitors may use the College parking lot, entering at Merion Gate, which is directly opposite 815 New Gulph Road.

By bus: All Greyhound buses arrive at the Philadelphia terminal at 17th and Market Streets, adjoining Suburban Station. Trailways buses arrive at 13th and Arch Streets, three blocks from Suburban Station. Take the Paoli Local from Suburban Station to Bryn Mawr.

By railroad: Connections from the east, north and south are best made from 30th Street Station, Philadelphia, on the Paoli Local of the Pennsylvania Railroad, which leaves the station every thirty minutes. Those coming by rail from the west are advised to leave the train at Paoli (rather than North Philadelphia) and take the Local from Paoli to Bryn Mawr.

To walk to the College from the Bryn Mawr Station, go one block to the traffic light at the intersection of Morris and Montgomery Avenues, cross Montgomery on to Morris and take the next left on to Yarrow Street, which leads directly to the campus.





Bryn Mawr College Calendar

BRYN
MAWR

Undergraduate Courses

1968-69

Bryn Mawr College Calendar

Undergraduate Courses

Issue for the Session of 1968-69

August 1968, Volume LXI, Number 3

Visitors to the College are welcome, and when the College is in session student guides are available to show visitors the campus. Appointments for interviews and for campus tours should be made in advance by letter or by telephone. The College offices are open Monday through Friday from nine until five and on Saturdays from nine until one. From mid-June until after mid-September the offices are closed on Saturdays.

Correspondence

The Post Office address is Bryn Mawr College, Bryn Mawr, Pennsylvania 19010.

Correspondence regarding the following subjects should be addressed to:

The President

General interests of the College

The Dean

Academic work, personal welfare and health of the students

The Director of Admissions

Admission to the Undergraduate School and entrance scholarships

The Dean of the Graduate School

Admission to the Graduate School and graduate scholarships

The Director of Halls

Rooms in the halls of residence

The Comptroller

Payment of bills

The Director of the Bureau of Recommendations

Recommendations for positions and inquiries regarding students' self-help

The Alumnae Secretary

Regional scholarships and loan fund

Bryn Mawr College Calendar. Published December, July, August and September by Bryn Mawr College, Bryn Mawr, Pa. 19010.

Second Class Postage paid at Bryn Mawr, Pa.

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Academic Schedule 1968-69

1968

First Semester

- September 12.* Halls of residence open to entering class at 8 a.m.
Registration of entering undergraduate students.
- September 14.* Halls of residence open to returning undergraduates
at 8 p.m.
- September 15.* Enrollment of returning undergraduate students.
- September 16.* Work of the 84th academic year begins at 9 a.m.
- September 18.* Registration period for graduate students ends.
- October 5.* French examinations for undergraduates.
- October 19.* German examinations for undergraduates.
Italian, Spanish, Russian and Statistics examinations
for graduate students.
- October 26.* Italian and Spanish examinations for undergraduates.
French examinations for graduate students.
- November 2.* Greek, Latin and Russian examinations for under-
graduates.
German examinations for graduate students.
- November 6.* Hygiene examination at 7:30 p.m.
- November 9.* Mathematics examinations for undergraduates.
- November 27.* Thanksgiving Holiday begins after last class.
- December 2.* Thanksgiving Holiday ends at 9 a.m.
- December 20.* Christmas vacation begins at 12:45 p.m.
Last day of lectures.

1969

- January 6.* Christmas vacation ends at 9 a.m.
Review Period begins.
- January 8.* Review Period ends.
- January 9.* College examinations begin.

- January 10.* Final date for filing completed applications for Semester II to the Graduate School.
- January 11.* French, German, Greek, Latin and Russian examinations for Seniors Conditioned.
- January 17.* College examinations end.
- January 18.* Intersession begins.
- January 22.* Registration period for graduate students begins.
- January 26.* Intersession ends.

Second Semester

- January 27.* Work of the Second Semester begins at 9 a.m.
- January 29.* Registration period for graduate students ends.
- March 1.* Italian, Russian, Spanish and Statistics examinations for graduate students.
- March 8.* French examinations for graduate students.
- March 15.* Mathematics examinations for undergraduates.
German examinations for graduate students.
- March 21.* Spring vacation begins after last class.
- March 31.* Spring vacation ends at 9 a.m. Deferred examinations begin.
- April 5.* Deferred examinations end.
German examinations for undergraduates.
- April 12.* Greek, Latin and Russian examinations for undergraduates.
- April 18-20* Geology Field Trip.
- April 26.* French examinations for undergraduates.
- May 3.* Italian and Spanish examinations for undergraduates.
- May 9.* Last day of Lectures.
- May 10-12.* Review Period.
- May 13-22.* College examinations.
- May 26.* Conferring of degrees and close of 84th academic year.
- May 31.* Alumnae Day.

The Trustees of Bryn Mawr College

J. Edgar Rhoads, *President*

Millicent Carey McIntosh ¹	Elizabeth Gray Vining ²
<i>Vice-President</i>	<i>Vice-President</i>

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J. Tyson Stokes	Katharine Budd Whelihan ³
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Henry Joel Cadbury	Edmund B. Spaeth, Jr.
John E. Forsythe	Thomas B. Harvey, Jr.
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John E. Forsythe	Millicent Carey McIntosh ¹
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Allen McKay Terrell	<i>Alumnae Director, 1965-70</i>
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James Wood	<i>Alumnae Director, 1966-71</i>
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Phyllis Goodhart Gordan ⁶	
Alice Palache Jones ⁷	

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Mrs. Aldrich
Mr. Forsythe
Mrs. Gordan
Miss McBride
Mrs. McIntosh
Mrs. Pusey
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Mr. Stokes

Buildings and Grounds Committee

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Mrs. Gordan, *Vice-Chairman*
Mrs. Horrocks
Mrs. Ingersoll
Mrs. Kaiser
Miss McBride
Mrs. Paul
Mr. Rhoads

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Mrs. Jones
Mr. Price
Mr. Stokes
Mr. Terrell
Mr. Wood

Library Committee

Mrs. Gordan, *Chairman*
Mrs. Aldrich
Mrs. Brown
Miss McBride
Mrs. Pusey
Mrs. Stokes
Mrs. Vining

Religious Life Committee

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Mrs. Ingersoll
Mrs. McIntosh
Mrs. Pusey
Dr. Rhoads
Mr. Stokes
Mrs. Vining

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² Mrs. Morgan Vining

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⁴ Mrs. Francis J. Stokes

⁵ Mrs. Talbot Aldrich

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⁹ Mrs. Charles Bennett Brown

¹⁰ Mrs. Nathan M. Pusey

¹¹ Mrs. Thomas S. Horrocks

¹² Mrs. Samuel H. Paul

¹³ Mrs. Edgar F. Kaiser

¹⁴ Mrs. Cornelius C. Vermeule III

¹⁵ Mrs. Thomas Thacher

Bryn Mawr College Faculty and Staff

For the Academic Year, 1968-69

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L.H.D., SC.D., *President of the College*

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Elizabeth Read Foster, PH.D. (Yale University), *Dean of the Graduate School*

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Irene A. Clayton, M.S. (University of Wisconsin), *Director of Physical Education*¹

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Professor Emeritus of Music

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Max Diez, PH.D. (University of Texas), *Professor Emeritus of German Literature*

Charles Ghèquière Fenwick, PH.D. (Johns Hopkins University), LL.D.,
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Myra Richards Jessen, PH.D. (Bryn Mawr College), *Professor Emeritus of German*

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- Fritz Mezger, PH.D. (University of Berlin), *Professor Emeritus of Germanic Philology*
- Arthur Colby Sprague, PH.D. (Harvard University), *Professor Emeritus of English Literature*
- Lily Ross Taylor, PH.D. (Bryn Mawr College), *Professor Emeritus of Latin*
- Roger Hewes Wells, PH.D. (Harvard University), *Professor Emeritus of Political Science*
- Mary Katharine Woodworth, PH.D. (Bryn Mawr College), *Professor Emeritus of English*
- Dorothy Wyckoff, PH.D. (Bryn Mawr College), *Professor Emeritus of Geology*
- L. Joe Berry, PH.D. (University of Texas), *Professor of Biology and Secretary of the Faculty*
- Morton S. Baratz, PH.D. (Yale University), *Professor of Economics*³
- Ernest Berliner, PH.D. (Harvard University), *W. Alton Jones Professor of Chemistry*
- Morton E. Bitterman, PH.D. (Cornell University), *Professor of Psychology*⁴
- Robert L. Conner, PH.D. (Indiana University), *Professor of Biology*²
- Rachel Dunaway Cox, PH.D. (University of Pennsylvania), *Professor of Education and Child Development*
- Frances de Graaff, PH.D. (University of Leyden), *Professor of Russian*

N.B. The notations throughout this section refer to the following footnotes:

¹ On sabbatical leave, semester I, 1968-69.

² On sabbatical leave, 1968-69.

³ On leave of absence, semester I, 1968-69.

⁴ On leave of absence, 1968-69.

⁵ On sabbatical leave, semester II, 1968-69.

⁶ On leave of absence, semester II, 1968-69.

⁷ On Junior Faculty Research leave, 1968-69.

- Frederica de Laguna, PH.D. (Columbia University), *Professor of Anthropology*
- Lincoln Dryden, PH.D. (Johns Hopkins University), *Professor of Geology*
- Arthur P. Dudden, PH.D. (University of Michigan), *Professor of History*
- José María Ferrater Mora, *Licenciado en Filosofía* (University of Barcelona), *Professor of Philosophy*
- Elizabeth Read Foster, PH.D. (Yale University), *Dean of the Graduate School and Professor of History*
- Joaquín González Muela, D. en F.L. (University of Madrid), *Professor of Spanish*
- Robert L. Goodale, B. MUS. (Yale University), A.A.G.O., *Alice Carter Dickerman Professor of Music*
- Michel Guggenheim, PH.D. (Yale University), *Professor of French*
- Rosalie C. Hoyt, PH.D. (Bryn Mawr College), *Professor of Physics*
- Joshua C. Hubbard, PH.D. (Harvard University), *Professor of Economics*
- Agi Jambor, M.A. (Royal Academy of Budapest), *Professor of Music and Director of Ensemble Groups*
- George L. Kline, PH.D. (Columbia University), *Professor of Philosophy*
- Mabel L. Lang, PH.D. (Bryn Mawr College), *Professor of Greek*
- Richmond Lattimore, PH.D. (University of Illinois), LITT.D., *Paul Shorey Professor of Greek*²
- Gertrude C. K. Leighton, A.B. (Bryn Mawr College), LL.B. (Yale University), *Professor of Political Science*
- Katherine D. K. Lower, PH.D. (University of Wisconsin), *Professor of Social Work and Social Research*
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- Machteld Mellink, PH.D. (University of Utrecht), *Professor of Classical and Near Eastern Archaeology*
- Agnes Kirsopp Michels, PH.D. (Bryn Mawr College), *Professor of Latin*²
- Walter C. Michels, PH.D. (California Institute of Technology), *Marion Reilly Professor of Physics*

- Charles Mitchell, M.A., B.LITT. (Oxford University), *Professor of History of Art*
- Milton Charles Nahm, B.LITT., PH.D. (University of Pennsylvania), *Professor of Philosophy*
- Jane M. Oppenheimer, PH.D. (Yale University), *Class of 1897 Professor of Biology*
- John C. Oxtoby, M.A. (University of California), *Professor of Mathematics*
- John R. Pruett, PH.D. (Indiana University), *Professor of Physics*
- William J. Roach, PH.D. (University of Chicago), *Visiting Professor of Old French*
- Caroline Robbins, PH.D. (University of London), *Marjorie Walter Goodhart Professor of History*
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- Eugene V. Schneider, PH.D. (Harvard University), *Professor of Sociology*
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- Isabel Scribner Stearns, PH.D. (Bryn Mawr College), *Professor of Philosophy*
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- George L. Zimmerman, PH.D. (University of Chicago), *Professor of Chemistry*
- Frederic Cunningham, Jr., PH.D. (Harvard University), *Associate Professor and Professor-elect of Mathematics*
- Richard C. Gonzalez, PH.D. (University of Maryland), *Associate Professor and Professor-elect of Psychology*
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- Philip Lichtenberg, PH.D. (Western Reserve University), *Associate Professor and Professor-elect of Social Research*
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- Robert H. Butman, M.A. (University of North Carolina), *Associate Professor of English on the Theresa Helburn Fund and Director of the Theatre, on joint appointment with Haverford College*
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- Jean D. Haring, D.S.W. (Western Reserve University), *Associate Professor of Social Work and Social Research*
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- Willard F. King, PH.D. (Brown University), *Associate Professor of Spanish*
- Jane C. Kronick, PH.D. (Yale University), *Associate Professor of Social Work and Social Research*²
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- Susan E. Maxfield, M.S. (Yale University), *Associate Professor of Education and Child Development and Director of the Phebe Anna Thorne School*
- Jeanne C. Pollock, M.S.W. (University of Pennsylvania School of Social Work), *Associate Professor of Social Work*¹
- Jean A. Potter, PH.D. (Yale University), *Associate Professor of Philosophy*
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- James E. Snyder, PH.D. (Princeton University), *Associate Professor of History of Art*^{1, 6}
- Myra L. Uhlfelder, PH.D. (Bryn Mawr College), *Associate Professor of Latin*
- Joseph Varimbi, PH.D. (University of Pennsylvania), *Associate Professor of Chemistry*
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- Paul Hare, PH.D. (University of Chicago), *Visiting Lecturer in Sociology, semester I*
- William L. Holmes, PH.D. (University of Toronto), *Visiting Lecturer in Biology*
- Nancy Howe, M.A. (Johns Hopkins University), *Lecturer in Italian*
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- Alice M. Isen, PH.D. (Stanford University), *Visiting Lecturer in Psychology*
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- Matthias A. Shaaber, PH.D. (University of Pennsylvania), *Visiting Lecturer in English*
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- John David Summers, M.A. (Yale University), *Lecturer in History of Art*
- Joyce Trebilcot, PH.D. (University of California), *Teaching Resident in Philosophy*
- John R. Vanderzell, PH.D. (Syracuse University), *Visiting Lecturer in Social Work and Social Research, semester I*
- Herbert N. Weissman, PH.D. (University of California), *Visiting Lecturer in Psychology, semester I*
- Alice Whiting, M.S.W. (University of Michigan), *Field Instruction Consultant and Lecturer-elect in Social Work and Social Research*
- Merilyn Woods, PH.D. (Bryn Mawr College), *Lecturer in Social Work and Social Research*
- Gregory W. Dickerson, M.A. (Princeton University), *Instructor in Greek and Latin*
- Katherine L. Holli, M.A. (Middlebury College), *Instructor in German*
- Ramona T. Livingston, A.B. (William Jewell College), *Instructor in English*
- Margaret S. Maurin, PH.D. (Bryn Mawr College), *Part-time Instructor in French*
- Dolores G. Norton, M.S.S. (Bryn Mawr College), *Instructor in Social Work and Social Research*
- Katrin Norton, M.A. (Cornell University), *Instructor in English*
- Virginia B. Pennypacker, M.A. (Bryn Mawr College), *Part-time Instructor in English*
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- Lucy MacD. Anderson, PH.D. (University of Pennsylvania), *Part-time Instructor-elect in Biology*
- Adele F. Berlin, A.B. (University of Pennsylvania), *Part-time Instructor-elect in Classical and Near Eastern Archaeology*
- Bruce W. Frier, M.A. (Princeton University), *Instructor-elect in Latin*
- Mary C. Hendrickson, M.A. (Bryn Mawr College), *Part-time Instructor-elect in History*
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- James McCaughey, M.LITT. (University of Dublin), *Instructor-elect in Greek*
- Beth M. Riser, M.A. (Bryn Mawr College), *Part-time Instructor-elect in Education and Child Development*
- Carol W. Carpenter, M.A. (University of Pennsylvania), *Curator of Slides and Photographs*
- Fritz Janschka, *Akademischer Maler* (Akademie der Bildenden Künste), *Artist in Residence*²
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- Roddy V. Amenta, M.S. (George Washington University), *Part-time Assistant in Geology*
- Bruce M. Cole, M.A. (Oberlin College), *Part-time Assistant in History of Art*
- Karen Anne Curto, A.B. (Chatham College), *Assistant in Psychology*
- Nancy Fabbri, M.A. (Bryn Mawr College), *Part-time Assistant in History of Art*
- Robert J. Ferguson, B.S. (Western Illinois University), *Part-time Assistant in Chemistry*
- Charlotte F. Feierman, B.S. (Ursinus College), *Part-time Assistant in Physics*
- Kathryn Joan Gogolin, A.B. (Wilson College), *Part-time Assistant in Biology*
- Prabhat Goswami, M.S. (Gauhati University), *Part-time Assistant in Chemistry*
- Burton Gummer, M.S.W. (University of Pennsylvania), *Part-time Assistant in Social Work and Social Research*
- Myrl Hermann, A.B. (Radcliffe College), *Part-time Assistant in Music*
- Stanley O. Hoerr, B.D. (San Francisco Theological Seminary), *Part-time Assistant in Philosophy*
- Gerard G. Innocenti, M.A. (Duquesne University), *Part-time Assistant in History*
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Phyllis C. Haberern, M.A. (Lehigh University), *Warden-elect*
Judith Ann Helms, B.A. (Indiana University), *Warden-elect*
Sylvia Kartsonis, M.A. (Bryn Mawr College), *Senior Resident*
Eugenia Maria Kobrak, A.B. (Bryn Mawr College), *Warden of Rockefeller Hall*
Gudrun Koppers, *Staatsexamen* (University of Munich), *Head of the German House*
Wendy Moldovan, A.B. (Hunter College), *Warden-elect*
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John F. Howkins, M.D. (Columbia University, College of Physicians and Surgeons), *Consulting Psychiatrist*
Howard B. Smith, M.D. (Jefferson Medical College), *Consulting Psychiatrist*

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Sandra Diane Brugger, B.S. (Boston Bouve College of Northeastern University), *Instructor-elect in Physical Education*
Jan Eklund Fisher, M.ED. (University of Minnesota), *Instructor in Physical Education*
Mary L. O'Toole, B.S. (University of Massachusetts), *Instructor-elect in Physical Education*
Janet A. Yeager, *Instructor in Physical Education*

Child Study Institute

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Lelia Broderson, M.A. (Temple University), *Chief Psychologist*
Louise Brunk, M.S.S. (Bryn Mawr College), *Social Caseworker*
Gwendolyn A. Binegar, M.S.S. (Bryn Mawr College), *Caseworker*
Anna D. Emmons, M.S. (University of Pennsylvania), *Remedial Reading Teacher*
Joel Goldstein, M.D. (Jefferson Medical School), *Consulting Psychologist*
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Introduction

Bryn Mawr College was founded by a group of men and women belonging to the Society of Friends who were convinced that intelligent women deserve an education as rigorous and stimulating as that offered to men.

This concern about opportunity for women to study at the university level was first felt by Dr. Joseph Taylor, a New Jersey physician, who decided to give his estate to provide the land, the first buildings and the endowment for the new college. With much care Dr. Taylor chose the site, thirty-nine acres of land on a hill in Bryn Mawr, eleven miles west of Philadelphia. He supervised the erection of the first building and took part in formulating the plans that led to a new educational venture. This was the opening in 1885 of the first college for women with undergraduate instruction for the A.B. and graduate instruction for the M.A. and PH.D. degrees in all departments.

Dr. Taylor as he planned the College thought first of the education of young Friends. He expressed the "desire that all having any connexion with this Institution shall endeavor to instil into the minds and hearts of the students, the Doctrines of the New Testament as accepted by Friends." As Dr. Taylor's trustees in the early years considered the policies of the College they found themselves bound to allow freedom of conscience to all students. By 1893 it is clear from their studies and reports that they were determined to maintain a non-denominational college while strongly supporting the Friends' position of freedom of conscience and providing for continued opportunity within the College and through the College to encourage the student to develop and strengthen her own religious faith.

The first president of Bryn Mawr College was James E. Rhoads, a retired physician and one of the Trustees responsible for the initial plans. The first dean was M. Carey Thomas, who devoted her life to securing for women the opportunity for higher education and the right to share in all the privileges and responsibilities of American citizenship. Miss Thomas succeeded to the presidency in 1893, after the resignation of Dr. Rhoads. In 1922, she was followed by Marion Edwards Park, already distinguished in the academic world for her scholarship in the classics and her ability as a teacher and administra-

tor. The fourth president is Katharine Elizabeth McBride, who was elected to the presidency in 1942.

Bryn Mawr has preserved the purpose and much of the tradition of its founders. It believes that intellectual enrichment and discipline provide a sound foundation for living. It believes in the rights of the individual and in freedom to think and act as intelligent and responsible members of a democratic society.

By the terms of its charter Bryn Mawr College offers instruction in the liberal arts and sciences on both the undergraduate and graduate level. Members of the faculty usually combine graduate and undergraduate teaching. Teaching and research are found to complement each other, and the stimulation of investigation in the various fields of graduate study is reflected in all departments of undergraduate work. The undergraduate program emphasizes both depth and breadth of knowledge and understanding. No field is so broad that it cannot take advantage of the specialist's deep understanding; no specialty is so obscure that it may not profit from a breadth of perception.

Believing that a small college provides the most favorable opportunity for the students to participate actively in their own education, Bryn Mawr College limits the number of undergraduates to approximately seven hundred students. And since diversity in background and training serves not only to stimulate discussion but also to develop an intelligent understanding of such diversity, the undergraduate enrolment includes students from various types of schools, private and public, foreign as well as American. The whole group, both graduate and undergraduate, is composed of students from all parts of the United States as well as students from many foreign countries.

Since the early years of Bryn Mawr, the campus has grown from 39 to about 96 acres, new buildings have been added as required by additional students and by more complex undertakings in teaching and research.

The resources of Bryn Mawr as a small residential college are augmented by its participation with Haverford College and Swarthmore College in a plan which coordinates the facilities of the three institutions while preserving the individual qualities and autonomy of each.

Bryn Mawr College sponsors a broad cultural program which supplements the curriculum and enriches its community life. Various lectures bring scholars and other leaders in world affairs to the campus for

series of public lectures and for classes and conferences with the students. Such opportunities are provided by the six-week residence of the Mary Flexner Lecturer in the humanities and of the Anna Howard Shaw Lecturer in the social sciences, and by various individual lecturers in many of the departments of the College. Several of the student organizations also arrange conferences and lectures both on current national and international problems and within particular fields of interest. The musical, dramatic and dance productions of the College are directed and arranged by the appropriate student organizations, often in cooperation with Haverford College students, and with professional assistance from members of the faculty and staff. The Mrs. Otis Skinner Theater Workshop has facilities for experimental theater work; the Arnecliffe Studio is for painting and sculpture, where guidance and criticism are provided by the artist-in-residence.

Student organizations have complete responsibility for the many aspects of student activity. Two large associations, to which every student belongs, provide a framework in which individuals and smaller groups function. The Self-Government Association legislates in matters of social and personal conduct, and its elected Executive Board has full responsibility for the executive and judicial functions of the organization. Through their Self-Government Association, the students share with the faculty the responsibility for the administration of the Academic Honor System. The Undergraduate Association coordinates the activities of the many specialized clubs and societies which are open to all students.

The Interfaith Association invites students of all faiths to take part in its work. The Association is aided by the Committee on Religious Life of the Board of Directors and by the staff of the College. Its objectives are to bring students in touch with their churches, to sponsor lectures or discussion on religious subjects, to plan services for worship and to take the responsibility for giving students an opportunity to pursue and extend their religious interests.

Other major student associations are concerned with political affairs, community service, the arts and athletics. The Alliance for Political Affairs sponsors lectures and a series of groups organized for discussion or action. The Bryn Mawr League concerns itself with problems of social welfare and various branches of social service to the community at large. The Arts Council, independently or with other asso-

ciations, sponsors work and performances or exhibitions in the arts. *The College News* published weekly and *The Review* published twice yearly welcome the participation of students interested in reporting, editing, and critical or creative writing. The Athletic Association plans the extra-curricular athletic program.

One of the most active of student committees is the Curriculum Committee. This committee with the approval of the Faculty introduced in 1967-68, a system of self-scheduled examinations. The committee is now studying with the Faculty Curriculum Committee various new questions.

Admission

Bryn Mawr College is interested in candidates of character and ability, who wish a liberal college education and are prepared for college work by a sound education in school. The College has found highly successful candidates among students of varied interests and talents from a wide range of schools and regions in the United States and abroad.

In its consideration of candidates the College looks for evidence of ability in the student's high school record, her rank in class and her College Board tests, and asks her high school principal and some of her teachers for an estimate of her character, maturity and readiness for college.

The Director of Admissions welcomes correspondence and interviews with candidates, their parents and school advisers. The Office of Admissions is open from nine to five on weekdays and, except during July and August, on Saturdays from nine to one. Appointments for interviews and for campus tours should be made in advance by letter or by telephone. The interview is strongly recommended for all candidates, and is *required* of all candidates under the Early Decision Plan and all scholarship applicants. Representatives of the Alumnae Association and Information Chairmen in various sections of the country are glad to interview candidates who cannot come to the College. Names and addresses should be secured from the Director.

The College admits only candidates for a degree.

Program of Secondary School Studies

Candidates are expected to complete a four-year secondary school course. The program of studies providing the best background for college work includes English, languages and mathematics carried through most of the school years and, in addition, history and a laboratory science. A school program giving good preparation for study at Bryn Mawr College would be as follows: English grammar, composition and literature throughout four years; at least three years of Mathematics, with emphasis on basic algebraic, geometric and trigonometric concepts and deductive reasoning; a good foundation in two modern languages or in Latin or Greek; some work in History

and at least one course in laboratory science, preferably Biology, Chemistry or Physics. Elective subjects might be offered in, for example, History of Art, History of Music or Biblical studies to make up the total of 16 or more credits recommended for admission to the College.

Since school curricula vary widely, the College is fully aware that many applicants for admission will offer programs that differ from the one described above. The College is glad to consider such applications provided students have maintained good records and continuity in the study of basic subjects.

Application for Admission

Students are advised to apply for admission to Bryn Mawr between the end of the junior year and January 1 of the senior year of high school. The College welcomes earlier consultation about school programs.

Only in exceptional circumstances will applications to the freshman class be accepted after January 1 of the student's senior year.

Application forms may be obtained from the Director of Admissions, Bryn Mawr College, Bryn Mawr, Pennsylvania. A fee of \$15 must accompany each application and is not refundable.

Entrance Tests

The Scholastic Aptitude Test and three Achievement Tests of the College Entrance Examination Board are required of all candidates, and should be taken between March of the junior year and January of the senior year. The tests may be taken in either the junior or senior year, or divided between the two years. If possible, Achievement Tests should be taken in current subjects. Students should offer three of the one-hour tests: one in English, one in a foreign language (if studied for two full years or more) and one in Social Studies, Science or Mathematics. No special preparation, other than work well done in a good school, is required for successful performance on these tests.

Candidates are responsible for registering with the College Entrance Examination Board for the tests. Information about the tests, test centers, fees and dates may be obtained by writing to *College Entrance Examination Board, P. O. Box 592, Princeton, New Jersey 08540 or P. O. Box 1025, Berkeley, California 94701.*

Candidates will be notified of the Committee on Admissions' action on their application in mid-April of the senior year.

Early Decision Plan

A student who is applying for admission to Bryn Mawr College only, and to no other college, will be sent an earlier notice (by the middle of November) as to the action taken on her application, provided she follows the plan outlined below:

1. She must be recommended by her school as a strong candidate and must take her *final* Scholastic Aptitude Test in March or May of the junior year and three Achievement Tests (English and any two others) in March, May or July of the junior year.

2. After her school has reviewed the results of these tests together with her three-year high school record, she must file *by October 1*, a preliminary application, a statement obtained from the College that she is a candidate under the Early Decision Plan, and all other application forms.

3. She should arrange for the required interview at the College or with an alumna area representative. Names and addresses of the area representatives may be obtained from the Director of Admissions.

4. She will be notified by the College in the middle of November (1) that she will be admitted to Bryn Mawr the following autumn, provided her record continues to be good, or (2) that she is advised to transfer to the regular plan for admission, to file an application with at least one other college, or (3) that she will not be admitted to Bryn Mawr.

5. A student who has been assured of admission will be asked to make a deposit of \$50 by February 1, if she wishes to reserve a place in residence at Bryn Mawr College. This deposit will be deducted from her first semester bill and is not refundable.

Advanced Placement

Students who have carried advanced work in school and who have honor grades (4 and 5) on the Advanced Placement Tests of the College Entrance Examination Board may, after consultation with the Dean and the departments concerned, be admitted to one or more advanced courses in the freshman year. Bryn Mawr accepts Advanced Placement Tests with honor grades in the relevant subjects as exempt-

ing the student from college requirements for the A.B. degree.¹ With the approval of the Dean and the departments concerned, one or more Advanced Placement Tests with honor grades may be presented for credit. Students who enter with three or more Advanced Placement Tests passed with honor grades may apply for sophomore standing.

The Advanced Placement Tests are given at College Board centers in May. Students should also see the Dean about the advisability of taking placement tests given by the College during Freshman Week.

Transfer Students

Each year a few students are admitted on transfer to the sophomore and junior classes. Successful transfer candidates have done excellent work at other colleges and universities and present outstanding high school records which compare favorably with those of entering Bryn Mawr freshmen. Students are admitted only for the term beginning in September; there are no mid-year admissions. Transfer students are not eligible to apply for financial aid from Bryn Mawr until they have completed a year's work at the College.

Transfer candidates should file applications by February 15 of the year of entrance. Only in exceptional circumstances will applications be accepted after this date. Initially, the transfer applicant should submit:

1. A letter explaining her reasons for transferring and describing her plans for the major subject.
2. A transcript of her college work to date.
3. Official test reports from the College Entrance Examination Board of the Scholastic Aptitude and Achievement Tests taken in high school.

Transfer candidates who have not previously taken these tests will be required to take only the Scholastic Aptitude Tests. Test registration information may be obtained from the College Entrance Examination Board, Box 592, Princeton, New Jersey 08540, or from the West Coast office of the Board at Box 1025, Berkeley, California 94701.

No credit will be given for work done elsewhere until the student has successfully completed a year's work at Bryn Mawr. To qualify for the A.B. degree transfer students must have completed a minimum of

¹ The grade of 5 is required in English and in History.

See also pages 43-46, sections II and III.

two years of full-time study at the College. Students who have failed to meet the prescribed standards of academic work or who have been put on probation, suspended or excluded from other colleges and universities, will under no circumstances be admitted.

Candidates for transfer will be notified of the action taken on their applications by mid-May.

Foreign Students

Bryn Mawr welcomes applications from foreign students between the ages of 17 and 21 who have outstanding secondary school records and who meet university entrance requirements in their native countries.

Application forms and instructions are available from the Director of Admissions. No application fee is required. Foreign applications should be filed well in advance of February 1, the closing date.

Foreign applicants will be asked to take the Scholastic Aptitude Tests of the College Entrance Examination Board. Achievement Tests are recommended but not required. Test registration information may be obtained from the College Entrance Examination Board, Box 592, Princeton, New Jersey 08540 or the West Coast office of the Board at Box 1025, Berkeley, California 94701. Registration arrangements for students taking the tests abroad should be made at least two months prior to the scheduled testing date.

All foreign applicants whose native language is not English will be required to present credentials attesting to their proficiency in English. The Test of English as a Foreign Language (TOEFL) is recommended but not required for all non-native speakers of English unless they have a diploma from an institution in which English is the sole medium of instruction. TOEFL registration information can be obtained by writing the Educational Testing Service, Princeton, New Jersey 08540.

Withdrawal and Readmission

A student who has withdrawn from College is not automatically readmitted. After a year's absence, she may request readmission and should consult her Dean and the Director of Admissions concerning the procedure to be followed. Evidence of the student's ability to resume work at Bryn Mawr may be requested in the form of records from another university or medical approval. Applications for readmission will be reviewed twice during the year, in late February and

in June. Students who file an application by February 15 will be notified of the Committee's decision in early March. Those who file by June 10 will be notified late in June.

Leaves of Absence

A student whose status at the College is not in question may apply to her Dean for a leave of absence. A leave may be requested for one semester or two consecutive semesters, and once approved, reinstatement will be granted. The estimated residential space available at the time a student wishes to return to the College will be a factor in the consideration of requests for leaves. Application should be made by April 1 of the academic year preceding the requested leave. Applications made after this date will be considered only in exceptional circumstances. The Deans and members of the student's major department will review any questions raised by the student or her Dean regarding the approval of the leave. In case of study at another institution, either foreign or domestic, the transfer of credits will be treated in the usual manner by the Committee on Transfer. A student should confirm her date of return, by letter to her Dean, by March 1 preceding return for the fall semester and by December 1 for return in the spring semester.

A student extending her leave beyond the approved period will have to apply for readmission.

Medical Leave of Absence

A student may, on the recommendation of the College Physician or her own doctor, at any time request a medical leave of absence for reasons of health. Re-entrance will be granted upon evidence of recovery.

Academic Facilities and Residence

The Library

The M. Carey Thomas Library, containing over 330,000 volumes, is equipped to serve advanced graduate students and faculty as well as undergraduates. It is both a research and a study library.

The open-shelf system provides free access to the stacks. The Reference Room and Periodical Room make readily available standard works of reference and current periodicals.

The Quita Woodward Memorial Room has been planned for recreational reading. The collection provided for this purpose, now numbering about two thousand volumes, includes recent books in literature, art, religion and current affairs as well as many classics.

In the Rare Book Rooms, there are early printed books, manuscripts, first editions, fine press books, fine illustrated editions and association copies. Exhibitions of items selected from the library's own resources and of material lent by friends of the Library are held at intervals during the academic year. Here also is the Marjorie Walter Goodhart Medieval Library, a collection of incunabula given by Howard L. Goodhart which numbers over nine hundred volumes. Consisting mainly of philosophical and theological works of the fifteenth century, it occupies a significant place among college library collections.

A large Reading Room modeled after the Great Hall in Wadham College, Oxford University, has individual desks for undergraduate students. Additional work space is available in the Reserve Book Room, the Reference Room, the Art Study and the carrels in the West Wing. Twelve seminar rooms are reserved for graduate students.

So crowded, however, has the Library become, not only in terms of its collections but also for faculty and students depending upon it, that a new library building is under construction and should be completed in the fall of 1969.

Haverford and Swarthmore Colleges and the libraries in Philadelphia are generous in making their resources available to students. The Union Library Catalogue of Philadelphia, situated at the University of Pennsylvania, enables students to locate easily the material in approximately one hundred and seventy-five libraries in the Philadelphia metropolitan area.

Students wishing to use another library for material not available at Bryn Mawr must secure from the Bryn Mawr head librarian a letter of introduction stating the subject to be consulted. Cards of identification for the use of the Haverford College Library are obtainable at the Circulation Desk.

Each of the science departments at Bryn Mawr has its own library, with adequate reading space providing ready accessibility to bound and current numbers of scientific journals, standard reference books and modern texts.

Archaeology Collections

The Ella Riegel Museum of Classical Archaeology, housed on the third floor of the Library, West Wing, contains a small study collection of Greek and Roman minor arts, especially vases, and a selection of pre-classical antiquities. The Museum was formed from private donations such as the Densmore Curtis collection presented by Clarissa Dryden, the Elisabeth Washburn King collection of classical Greek coins, and the Aline Abaecherli Boyce collection of Roman Republican silver coins. Professor Hetty Goldman has given the Ella Riegel Museum an extensive study collection of pottery samples from the excavations at Tarsus in Cilicia. The collections are used for small research projects by undergraduate and graduate students.

Anthropology Museum and Laboratory

The Anthropology Laboratory in Dalton Hall houses several large collections of New World artifacts, including the W. S. Vaux Collection of archaeological and ethnological materials. This important collection, made during the last half of the nineteenth century, has as its main emphasis the artistic works of New World Indians. The Anne and George Vaux Collection represents a wide selection of American Indian basketry from the Southwest, California and the Pacific Northwest. The extensive Ward Canaday Collection contains outstanding examples of most of the ceramic and textile traditions known for Peru. Other comprehensive collections, given by faculty and friends of the College, represent the Old World Paleolithic and Neolithic, Paleo-Indian, Eastern Woodland, Southwestern, Middle Mississippian and Mexican antiquities. These collections are shortly to be enlarged by osteological materials and casts of fossil hominids. There is also a

small but growing collection of ethnomusical recordings, representing the music of native peoples in all parts of the world. Students are expected to make use of these materials and laboratory facilities; there are limited display areas available for those interested in working on museum exhibits.

Laboratories

Laboratories, classrooms and libraries for Biology, Chemistry, Geology, Mathematics and Physics are located in the three buildings of the Science Center. Laboratories and classrooms for Psychology remain in Dalton Hall.

In the Science Center the central building is the Marion Edwards Park Hall for Chemistry and Geology. Adjoining this building on the north is a building for the biological sciences. South of Park Hall is the building for the physical sciences, which provides additional space for Chemistry and Geology, all the laboratories for Physics and classrooms and a library for Physics and Mathematics.

In all three buildings in the Science Center and in Dalton Hall there are large laboratories and lecture rooms for undergraduate students and smaller seminar rooms and laboratories for graduate students. In addition to the usual equipment, the science departments have special apparatus and instruments needed in particular research projects by faculty and graduate students and acquired, in part, through the Plan for the Coordination of the Sciences and through research grants from industry and other private sources and from government agencies.

In the new building for the physical sciences there is a machine shop with expert machinists in charge and a student workshop available to graduate students. There are rooms in the Biology Building for work with radioactive materials, for microphotography and for glass blowing.

A Computer Center under the joint sponsorship of Haverford and Bryn Mawr Colleges is on the Haverford campus. It has an IBM 1620 computer and auxiliary record equipment for the use of students and faculty of both colleges. Computer-related machines are available in Dalton Hall on the Bryn Mawr campus.

The Geology Department makes available for study and research several important collections. On deposit from the United States Army Map Service are 25,000 maps. The Department's large collection of

minerals has been greatly increased recently by the gift of the Mineral Collection of George Vaux, Junior.

Language Laboratory

The Modern Language Departments jointly maintain a Language Laboratory in Dalton Hall. Its library of tapes contains recordings from the various literatures as well as material especially prepared for language drills. The simple but versatile modern equipment offers opportunities to improve both the speaking and comprehension proficiency of the student of foreign languages.

Halls of Residence

There are on campus nine halls of residence, which provide full living accommodations for from 50 to 135 students. The newest of these, Eleanor Donnelley Erdman Hall, opened in September 1965. It was named in honor of Eleanor Donnelley Erdman, Class of 1921, and member of the Board of Directors, 1951-56. Denbigh Hall, Merion Hall, Pembroke East, Pembroke West and Radnor Hall are named for counties in Wales, recalling the tradition of the early Welsh settlers of the area in which Bryn Mawr is situated. Rockefeller Hall is named for its donor, John D. Rockefeller, and Rhoads North and South for the first president of the College, James E. Rhoads. In addition there are three smaller halls which constitute language houses for upper-classmen who wish to speak French, German or Spanish. In September construction will start on a new language complex for students in French, German and Spanish.

A college officer, the warden, is in charge of each residence hall. She is a member of the Dean's staff and is herself engaged in teaching or in studying for an advanced degree. She is interested in all aspects of each student's welfare and she works, as well, with the student officers in each hall.

The College offers a variety of living accommodations including a few suites and a limited number of double rooms. However, most students occupy single rooms. The College provides basic furniture but students supply rugs, curtains and any other accessories they may wish.

The maintenance of halls is the responsibility of the Director of Halls and a staff of managers. Food service is provided by a Philadelphia company. No special foods or diets can be obtained.

Rules for Residence

Residence in the college buildings is required of all undergraduates except those living with their families in Philadelphia or the vicinity. Married students are not admitted to residence.

A student enrolled in the College who plans to be married must inform the Dean of her intentions well in advance of the date of her marriage and must make arrangements for living that meet with the Dean's approval. Any student who marries during her college career without previously informing the Dean of her plan will not be permitted to remain in the College.

The College maintains the halls of residence in order to provide simple, comfortable living for its students. It expects students to respect its property and the standards on which the halls are run. A printed statement of residence regulations is given each student. The College makes every effort to keep the residence charge low; the present rates are possible only because the students have agreed to assume the major responsibility for keeping their rooms clean and in order, thus permitting a reduction in service. Failure on the part of a student to meet the requisite standard in the care of her room may cause the College to refuse her residence the following year.

All the undergraduate halls are closed during the Christmas vacation. One hall is kept open during the Spring vacation and here undergraduates may occupy rooms at \$3.50 per day.

Non-Resident Students

For non-resident students, there is a suite of rooms in Erdman Hall containing study space, a kitchenette, dressing room and showers. College mail and campus notices will be sent there throughout the academic year. The warden of one of the halls of residence is available for advice and glad to help plan teas or any other special occasions which the students may be interested in arranging. When space permits, students may make arrangements to have meals in the halls.

Non-resident students are liable for all undergraduate fees except those for residence in the hall. A Dispensary fee of \$25 entitles them to medical examination and consultation with the College Physician.

A non-resident student who wishes to enroll for the following year must make a deposit of \$25 not later than June 1, which will be credited against the tuition charge. This fee will not be refunded in case of withdrawal.

Fees

Tuition

The tuition fee for all undergraduate students, resident and non-resident, is \$1850 a year. The fee is payable on receipt of the bill sent in October. No reduction or refund of the tuition fee will be made on account of absence, illness, dismissal, or for any other reason.

The average cost of teaching each undergraduate student is about \$3780 a year. The difference must be met from income on endowment and from private gifts. Contributions from parents able and willing to pay the additional sum or part of it are most welcome and help to meet expenses of instruction.

Residence

The charge for residence is \$1150, \$1250 or \$1350, according to the size and location of the student's room. Residence fees are payable as follows:

\$1150—payable \$575 in October, \$575 in February

\$1250—payable \$625 in October, \$625 in February

\$1350—payable \$675 in October, \$675 in February

Application for Residence. A student in residence, who wishes to apply for a room for the following year, must make an application for a room in April. Each student enrolled for the following year must make a deposit of \$50 not later than June 1. This deposit will be credited against the residence charge.

New students applying for residence will be billed \$50 in April. This fee will be credited against the residence charge. It will not be returned in case of withdrawal after June 1.

New students assured admission under the Early Decision Plan are asked to make a room deposit of \$50 by February 1.

An applicant who, after having reserved a room, fails to cancel her reservation by July 15 (even though she does not occupy the room at all or vacates it during the college year) prevents some other student from obtaining accommodation and consequently admission to the College. Therefore, unless formal notice of withdrawal of application for the ensuing academic year is received by the Dean of the College by July 15, the applicant is responsible for the residence charge (based

upon the room assigned to her) for the whole year, or if a definite room assignment has not been made, the applicant is responsible for the minimum residence charge of \$1150, subject to an allowance for the cost of food and a further allowance if the College re-rents the room to a student not previously resident. The applicant is not entitled to dispose of the room.

Summary of Major Expenses

For resident students, tuition and residence: \$3000, \$3100, or \$3200 according to the type of accommodation.

For non-resident students, tuition: \$1850.

Minor Fees and Charges

Laboratory courses (or, in Geology, field work) for materials and apparatus:

One course of 2 hours or less a week	\$ 7.50	} a semester
One course of more than 2 hours a week	15.00	
Two courses of more than 2 hours a week	25.00	
Three courses of more than 2 hours a week	30.00	
Health Insurance (Students' Reimbursement Plan)	27.80 a year	
Dispensary fee for non-resident students	25.00	
Graduation fee (payable in the senior year)	25.00	

Bills will be rendered by the Comptroller at the beginning of each semester. Students whose fees and charges are not paid before November 1 in the first semester and before March 1 in the second are not permitted to continue in residence or to attend their classes. The Education Plan is available for parents who prefer to pay fees in monthly instalments.

The Education Plan

For parents who wish to pay college fees on a monthly basis, the College offers the Education Plan in cooperation with the Bryn Mawr Trust Company. To finance a single year's cost it is necessary to sign an agreement at the beginning of the academic year. Contracts include the benefit of parent life, total and permanent disability insurance. For information regarding the plan, write to the Business Manager of the College.

General Information

Student Advising

The deans are responsible for the general welfare of undergraduates, and students are free to call upon them for help and advice on academic or more general problems. The Dean of the College and two Assistant Deans are class advisers. The Dean of the College advises seniors, one Assistant Dean advises sophomores and juniors, and another, the freshmen. A Scholarship Officer administers the financial aid program including loans as scholarship aids. The wardens of residence halls, who are members of the Dean's staff, also are ready to advise and assist students. The College Physician, the consulting psychiatrists, study counselors and vocational advisers are also available to all students. The deans and the wardens will give students information about appointments with these specialists.

For freshmen, the College provides a special period of orientation. Freshmen are asked to come into residence three days before the College is opened to upperclassmen. The wardens of the various halls and a committee of upperclassmen welcome them and are available to answer questions and give advice. Freshmen with their parents have interviews with the President and the Assistant to the President. In addition, freshmen have individual appointments with the Deans to plan their academic program for the year. New students also take placement tests and a physical examination. To acquaint them with the many other aspects of college life, activities are sponsored by the undergraduate organizations.

Academic Standards and Regulations

Faculty rules governing academic work and the conduct of courses are stated in a booklet, "Academic Rules for Undergraduates," given to each freshman. All students are responsible for knowing the rules thoroughly. Rules concerning the Academic Honor System and student conduct are stated in the Self-Government Handbook.

Each student's academic work must be of sufficiently high quality to meet the academic standards set by the College. The Senate of the College, composed of one faculty member from each department, reviews the records of those students whose work has fallen below the

required standard. In such cases the Senate may set specific requirements to be met by the student concerned and may also curtail privileges. In extreme cases the Senate may recommend exclusion from college.

Integrity of all work is demanded of every student. Information about the Academic Honor System dealing with the conduct of examinations, written quizzes, and other written work is given to all entering students, who must sign a statement that they have read, understood and accepted the rules. Any infraction of these regulations or any action contrary to their spirit constitutes an offense. Infractions are dealt with by an Administrative Board under the chairmanship of the President of the College. The members of the board are the four college-elected members of the Executive Board of the Bryn Mawr Students' Association for Self-Government, three members of the Faculty and the Dean of the College or the Assistant Dean.

Attendance at Classes

Regular attendance at classes is expected. Responsibility for attendance rests solely with each student. In general no attendance records are kept. Each instructor will make clear his view concerning absence from class.

Students should note that instructors are not notified of absences because of illness unless a student has missed three days of classes.

Absences for health or other urgent reasons are excused by the Dean, but any work missed must be made up. After a brief absence the student should consult her instructors about making up the work. In the case of a prolonged absence the Dean must be consulted as well as the instructors. If it seems probable to the Dean that a student's work may be seriously handicapped by the length of her absence, she may be required to drop one or more courses. Any student absent for more than twenty-five consecutive class days will generally be required to drop a course.

Exclusion

The College reserves the right to exclude at any time a student whose conduct or academic work is unsatisfactory.

Health

An extensive program, including periodic physical examinations and regular work if needed or desired during the first two years in the Department of Physical Education, has been established to help students develop and maintain optimum conditions of health. Students receive clinic and hospital care in the College Dispensary and Infirmary, where a College Physician is in daily attendance. The College maintains a modern 22-bed infirmary with a full staff of physicians and nurses. Additional medical and surgical facilities are available at the Bryn Mawr Hospital and in nearby Philadelphia.

Students receive out-patient care in the college dispensary and in-patient care when necessary in the Infirmary. With the exception of continuing psychiatric appointments, medical consultations are free of charge. Charges for psychiatric care are arranged individually. No student while in residence should consult an outside physician without previously informing the College Physician. Any student who leaves the campus for reasons of health must notify the Dean, the College Physician or Head Nurse before she leaves.

Certain health regulations must be met by all entering students. A medical examination blank provided by the College must be filed before July 1. As part of this health report, certification of immunization against tetanus, diphtheria and poliomyelitis, vaccination against smallpox, a Mantoux test and ophthalmologist's certificate are required. If the Mantoux test is reported positive a chest x-ray is necessary. Students who have failed to hand in these reports will have the necessary examinations and immunizations on arrival and will be charged accordingly.

The ophthalmologist's examination must be repeated before the beginning of the junior year. Failure to meet this requirement necessitates an examination by one of the college consultants, for which the student will be charged as a private patient by the ophthalmologist who makes the examination.

Every student with a health problem will be examined by the College Physician upon entering College and as often thereafter as necessary. Every undergraduate is examined by the College Physician in her senior year. A student who at any time is found not to be in good health is required to follow the special regimen prescribed by the

College Physician, including any necessary limitations on academic or extracurricular activities.

The residence fee paid by resident students entitles them to treatment in the College Dispensary and to care in the Infirmary for seven days, not necessarily consecutive, during the year, to attendance by the college physicians during this time and to general nursing. In cases requiring a special nurse, the expense incurred must be paid by the student. This is mandatory in cases of serious illness and strict isolation. The fee for each day in the Infirmary after the seven-day period is \$15. The Infirmary is open when college is in session and during spring vacation. It is closed during Christmas vacation.

Non-resident students must pay a fee of \$25, which entitles them to unlimited dispensary and laboratory service and free consultation with the college physicians and psychiatrists. Married non-resident students who maintain their own homes need not pay the fee unless they desire dispensary privileges.

All communications from parents and guardians, outside physicians and others, concerning the health of the students, should be addressed to the Dean of the College or to the College Physician. Any student who becomes ill when absent from College must notify the Dean of the College immediately and present to the Infirmary when she returns a signed statement from her physician.

The College reserves the right, if the parents or guardians cannot be reached, to make decisions concerning operations or other matters of health.

The College has arranged for health insurance, known as the Student's Reimbursement Plan. Individual policies providing reimbursement for medical, surgical and hospitalization expenses within specified limits are available to resident students. The cost is \$27.80 a year and includes protection during all vacations. Application forms may be obtained from the Comptroller.

Insurance

The College is not responsible for loss due to fire, theft or any other cause. Students who wish to insure against these risks should do so individually or through their own family policies.

Curriculum

The new plan of study for the Class of 1969 and later classes takes into account both the changes of recent years in secondary school education and the expectation of graduate school on the part of a larger proportion of students. It provides greater flexibility and makes it possible for students to include a wider range of fields of knowledge and to have greater freedom to explore and elect. One way in which greater flexibility has been achieved is to include all departments of the College in a divisional system, thus allowing both humanist and scientist a greater variety of ways in which to meet college requirements.

The Plan for the Curriculum is as follows:

I. All candidates for the A.B. degree shall present 16 units¹ of work. In most cases a unit of preparation for the Final Examinations in the Major Subject will constitute one of these units.

II. All students must present as a requirement for the degree one unit of work from each of the following four divisions.

Group I

History
Philosophy
Anthropology
Economics
Education
Political Science
Psychology (Social)
Sociology

Group II

Biology
Chemistry
Geology
Physics
Psychology 101
Mathematics²

Group III

English Literature³
Modern Literatures
Classical Literatures
(The foreign literatures
at the level presently
permitted under the
literature requirement)

Group IV

History
Philosophy
Archaeology
History of Art
History of Music
History of Religion

¹ A unit of work is the equivalent of eight semester hours and is either a year course, or when appropriate, two one-semester courses.

² Mathematics may not be chosen as fulfilling the Group II requirement if only one course in that group is taken.

³ In special cases and with the approval of the Curriculum Committee, Biblical Literature will serve as fulfilling the literature requirement.

The following directions and qualifications are to be noted:

a. A student (not majoring in subjects under Group II) may elect a second course under Group II as an alternative to any one of her other divisional requirements.

b. No course may satisfy more than one divisional requirement. Students majoring in History or Philosophy may count a course in their major as satisfying the requirement in *either* Group I or Group IV, but not both.

c. Courses taken to satisfy the requirements in English and Languages or Mathematics described below do not count as fulfilling divisional requirements.

III. In addition to the divisional requirements, each student must:

A. Include in her program two semesters of English composition (English 15) unless by a score of 5 on the Advanced Placement Test she has shown evidence that she has already attained proficiency at this level.

B. Achieve a certain level of proficiency in languages or in one language and mathematics, the level to be demonstrated in one of the three following ways:

1. She may demonstrate a knowledge of two foreign languages by
a. passing an examination offered by the College every spring and fall, or

b. passing with a grade of at least 70 a College course above the elementary level (such courses must be completed before the senior year), or

c. attaining a score of at least 590 (in one language) on a College Board Achievement Test taken in December or January of the senior year of high school and/or by passing with an honor grade an Advanced Placement Test.

2. She may offer one language to be tested as described above and demonstrate proficiency in mathematics by

a. attaining a grade of 4 or 5 on the Advanced Placement Test, or

b. passing an examination offered by the Department of Mathematics each spring and fall, or

c. achieving a grade of at least 70 in Mathematics 101, 103, or a more advanced course.

3. She may offer one language to an advanced level of proficiency

to be demonstrated by passing with a grade of at least 70 one course or two semester courses at the 300 level.

IV. At the end of the sophomore year each student must choose a major subject, and in consultation with the departmental adviser plan an appropriate sequence of major and allied courses; she must also make plans for fields which she will offer in the Final Examinations in the Major Subject and the kind of preparation for these examinations which she will undertake. Usually a major is made up of four courses, two courses of allied work, the equivalent of one advanced course in preparation for Final Examinations in the Major Subject, and these examinations in the spring of the senior year. No student may be required to offer more than six units of work in the major subject. Students invited to participate in the Honors program count the Honors project as one of the major subject units.

In brief outline, each student's program will include:

1. a unit of work in English, unless she is exempt
2. work to achieve the required level of proficiency in
 one language, or
 two languages, or
 one language and mathematics
3. four units of work, one from each of the divisions I-IV
4. a major subject sequence of at least four units of work and two units of allied work
5. elective units of work to complete an undergraduate program of at least 16 units.

Each major department offers Honors work to a number of its senior students who have demonstrated unusual ability. Honors work is of more advanced character than that done in the regular courses and requires more initiative and power of organization than is usually expected of undergraduate students. Such work may be carried on in connection with an advanced course or may be planned especially for individual students. It usually includes independent work of a critical and analytical nature with source material, periodic reports and the preparation of an Honors paper. To be eligible a student must have completed two years of study in the major subject, and her candidacy must be approved by the Dean and the Curriculum Committee. The Honors work must be undertaken in addition to at least one full unit of advanced course work.

Numerical grades on the scale of 100 are given in all courses counting for the degree. Each student must attain a grade of 70 or above in at least half of these courses and a grade of at least 60 in the remainder. In all courses in her major subject, she must attain grades of 70 or above. Should she receive a grade below 70 in a second-year or advanced course in the major subject, she may be required to change her major.

The degree of Bachelor of Arts is conferred upon students who have completed the course of study described above. The degree is awarded *cum laude*, *magna cum laude*, and *summa cum laude* to students whose numerical average in all their courses is 80-84, 85-89, 90 or above respectively. To students who have completed Honors work in their major subject the degree is awarded with honors in that subject.

Credit for work taken elsewhere is given as follows:

1. Transfer credits (see page 30)
2. Cooperation with Neighboring Institutions

Under the Three-College Plan for Cooperation, full-time students at Bryn Mawr may register for courses at Haverford College and Swarthmore College without payment of additional fees. Such registration must be approved by the Dean and the departments concerned. Credit toward the Bryn Mawr degree will be granted for such courses.

Students at Bryn Mawr may register for courses at Haverford (1) in order to include in their programs work not offered at Bryn Mawr, (2) in order to solve problems of schedule conflicts when courses are offered at both colleges and (3) whenever major departments advise.

Students registered for courses at Haverford should note that Haverford courses begin on the half hour and therefore be certain that their schedules allow for transportation time.

3. Summer School Work

Students desirous of supplementing their work at Bryn Mawr by taking courses in summer school are encouraged to do so after their freshman year. Students who wish to present summer school work for credits should first obtain approval of their plan from the Dean and from the department concerned. No credit will ever be given for work in which a student has received a grade below 70. Credit given will be calculated on an hour-for-hour basis.

Supplementary requirements for the Degree are:

1. In addition to completing the course of study outlined above, all candidates for the A.B. degree must take the following work:

a. Hygiene

All students must meet the requirements in Hygiene by passing an examination based on reading assigned by the College Physician and the Consulting Psychiatrists and given annually. The examination must be taken no later than the autumn of the junior year.

b. Physical Education

All students must meet the requirement in Physical Education. (See page 131.)

2. Residence—Every candidate for the degree of Bachelor of Arts unless she is a transfer student or is permitted to accelerate her program must attend Bryn Mawr College for a period of four years. Students admitted on transfer from other colleges must study at Bryn Mawr for at least two years.

3. Full Program of Work—With few exceptions, all students carry a complete program and no student may spend more than the equivalent of the four undergraduate years in completing the work for the A.B. degree.

Premedical Preparation

Bryn Mawr, through the curriculum in liberal arts and sciences, provides the opportunity of meeting requirements for admission to the leading medical schools of the country, and each year a number of its graduates enter these schools. The minimal requirements for most medical schools are met by the following courses: Biology 101, Chemistry 101, Chemistry 202, Mathematics 101, Physics 101. Some medical schools also stipulate Chemistry 201a and 203, and reading facility in French and German.

The requirements are fulfilled by a major in Biology, with the election of Mathematics 101 and Physics 101, or by a major in Chemistry, with the election of Biology 101. They can be met by a major in other subjects, such as literature or history, with careful planning of the student's courses during her four years at Bryn Mawr and some work in the summer at an institution giving summer courses acceptable either to Bryn Mawr in substitution for its regular course work, or to the

medical school of the student's choice as preparation for its courses of study.

The College is able to award a number of scholarships for medical study from funds given for that purpose by friends interested in the advancement of women in medicine. These may be applied for on admission to medical school and are awarded at the end of the senior year for use during the first year of medical study, with the prospect of renewal for later years if the student's need and her record in medical school warrant it.

Preparation to Teach

Students majoring in a liberal arts field which is taught in the secondary school may, by appropriate planning early in the undergraduate career, prepare themselves to teach in the public junior and senior high schools. A conference with Mrs. Cox or Mrs. Maw in the Department of Education is urged upon students who are considering the possibility of entering the teaching profession. Every state requires that candidates for teaching positions present a certificate issued by its state department of public instruction. Training and field experience leading to the certificate vary somewhat from state to state but the pattern is similar. Students at Bryn Mawr who earn teaching credentials valid in the state of Pennsylvania will usually be able to satisfy certification requirements in other states.

Coordination in the Sciences

In 1935, a grant from the Carnegie Corporation of New York enabled the College to put into operation a Plan for Coordination in the Sciences. Under the plan, the science departments offer an unusual kind of science training, providing instruction in overlapping fields of natural science and related subjects. The program necessarily demands a thorough grasp of the fundamentals of at least two sciences, and usually also of mathematics. This training may be obtained in the first three years of undergraduate study and the interrelated work begun in the senior year and continued in the Graduate School.

Through the grant, the College is also able to offer both undergraduate and graduate scholarships to students who wish to prepare themselves for future work in these extremely fruitful areas of scientific investigation. The chairmen of the departments included in this

plan (Biology, Chemistry, Geology, Mathematics, Physics, Psychology) will be glad to see students interested in it and to advise them about their courses of study. Such students should consult with the chairmen of the departments in which their special interests lie as early as it is possible to do so.

Interdepartmental Courses

Each year, certain courses are offered which cut across well-defined areas of knowledge and emphasize relationships among them. Such courses are taught by two or more members of the faculty working in close cooperation. Since the material considered requires some background in at least two disciplines, the interdepartmental courses are usually offered at the advanced level. For students who have progressed to the more complex aspects of their major subjects, the interdepartmental courses provide an opportunity to apply their training to new and broader problems and to benefit from the experience of seeing their own subject from the points of view of several specialists. To facilitate free discussion registration is generally restricted to a limited number of well-qualified students.

Language Houses

In recent years three small residence halls served as language houses for upper-classmen who wish to speak French, Spanish or German. Next year while a new group of language houses is being built, there will be only German and Spanish houses.

Sophomores, juniors or seniors who wish to live in a language house should apply to the head of the appropriate department. Adequate preparation in the language is a prerequisite and those who are accepted agree not to speak English at any time. Residence in a language house provides an excellent opportunity to gain fluency in speaking a foreign language and is highly advisable for students planning to spend the junior year abroad.

Institut D'Études Françaises D'Avignon

Bryn Mawr College offers a summer program of intensive work in significant aspects of French culture. The program is open to men and women students from other colleges. Certain of the courses carry graduate credit. The *Institut* director and faculty members are French

professors teaching in colleges and universities in the United States and France. Classes are held in the Palais du Roure and the facilities of the Bibliothèque Calvet are available to the group. Students live with families in Avignon. Applicants for admission must have strong academic records and have completed a course in French at the third-year college level or the equivalent. For detailed information concerning admission, curriculum, fees, academic credit and scholarships, students should consult Dr. Michel Guggenheim of the Department of French.

Centro de Estudios Hispánicos en Madrid

Bryn Mawr also offers a summer program of intensive work held in Madrid, Spain. The program, under the direction of a member of the Department of Spanish, is open to men and women students from other colleges. The instructors are members of college and university staffs who are familiar with teaching standards and practices in this country.

Courses are offered both for the student whose interest is Spain and for the student who wishes to specialize in Latin American affairs. Students live with Spanish families. All participate in study trips and attend an excellent series of carefully planned lectures and cultural events. Applicants must have strong academic records and must have completed the equivalent of three years of college-level Spanish. For information students should consult Dr. Phyllis Turnbull of the Department of Spanish. A small number of scholarships is available each year. The *Centro* was made possible by a grant from the Henry L. and Grace Doherty Charitable Foundation of New York.

The Junior Year Abroad

Qualified students may apply for admission to certain groups which offer a junior year in Europe. Bryn Mawr students may study in Paris under the junior year plans sponsored by Sweet Briar and Smith Colleges or at *L'Académie*; in Geneva, Florence, Hamburg or Madrid with groups organized by Smith College, or in Munich or Freiburg with the group sponsored by Wayne University. Applicants must have excellent academic records and must give evidence of competence in the language of the country in which they plan to study. In general, two years of study at the college level are necessary to provide ade-

quate language preparation. The junior year groups are not limited to language majors; they often include majors in, for example, History of Art, History or the social sciences. All students who plan to study abroad should consult the chairmen of their major departments to be certain that the work done in Europe may be coordinated with the general plan for the major subject.

Scholarships and Other Student Aid

All students are, strictly speaking, on scholarship in the sense that their tuition fees do not wholly cover the costs of instruction. To those students well-qualified for education in liberal arts and sciences but unable to meet the college fees, Bryn Mawr is able to offer further scholarship aid. Alumnae and friends of the College over many years have built up endowment for scholarships. Annual gifts from alumnae and alumnae clubs and from industrial and professional groups add to the amounts available each year. It is now possible to provide at least partial scholarships for approximately one third of the undergraduate students in the College. Full information about the scholarships available and other forms of help for meeting the expenses of college education will be found in the section, Financial Aid.

Courses of Study 1968-69

Key to Course Numbers and Symbols

I, 2, 3

indicate elementary and intermediate courses.

With the exception of Greek I and Russian I these courses are not part of the major work.

101, 102, etc.

indicate first-year courses in the major work.

201, 202, etc.

indicate second-year courses in the major work.

301, 302, etc.

indicate advanced courses in the major work.

* . . . indicates elective courses, open to all students without prerequisite unless a specific prerequisite is stated.

a . . . the letter "a," following a number, indicates a half-course given in the first semester.

b . . . the letter "b," following a number, indicates a half-course given in the second semester.

c . . . the letter "c," following a number, indicates a half-course given two hours a week throughout the year.

[] . . . Square brackets enclosing the title of courses indicate that these courses are not given in the current year.

In general, courses listed as full-year courses must be carried through two semesters. In some cases one semester of such a course may be taken with credit, but only with permission of the Dean of the College and the Department concerned. Students are reminded that one unit of work carried throughout the year is the equivalent of eight semester hours, or eleven quarter hours.

Haverford College courses are listed by number as they appear in the Haverford catalogue.

Anthropology

Professor: Frederica de Laguna, PH.D., *Chairman*

Assistant Professor: Herbert L. Alexander, Jr., M.A.

Jane C. Goodale, PH.D.

Visiting Lecturer: Reuben E. Reina, PH.D.

Professor of Music: Agi Jambor, M.A.

Assistant Professor of German: Nancy C. Dorian, PH.D.

The aim of the major is to introduce the student to an understanding of man and his works: human evolution, the origin and development of culture, the basic cultural patterns and social institutions in diverse societies. The advanced courses explore special fields or areas, and also discuss theories about cultural processes and the nature of culture itself.

Requirements in the Major Subject: 101, 203a & b, 204 or 208, 301a and an additional half-unit of advanced work.

Allied Subjects: Biology, Classical and Near Eastern Archaeology, Economics, English Literature, Geology, History, History of Art, Linguistics, Philosophy, Political Science, Psychology, Sociology.

101. *Man, Culture and Society:* Mr. Alexander, Miss de Laguna, Miss Goodale.

Man's place in nature and the development of his capacity for culture; the history of human culture to the rise of the early civilizations in the Old and New Worlds; forms of culture and society among primitive peoples.

- 203a. *Primitive Society:* Miss Goodale.

Analysis of social organization of pre-literate societies. Prerequisite: Anthropology 101.

- 203b. *Primitive Culture:* Miss Goodale.

Analysis of significant studies of culture illustrating problems in ethnography. Prerequisite: Anthropology 203a.

204. *American Archaeology:* Mr. Alexander.

Prerequisites: Anthropology 101 or 209b, or permission of instructor.

205c.* *Ethnomusicology*: Mme. Jambor.

The history and development of folk music; a comparative study.
The materials studied will be taken from the cultures of Africa, the American Indians and others.

[206b.* *Native Culture of Latin America*: Mr. Alexander.]

[208. *Old World Prehistory and Human Evolution*: Mr. Alexander.]

[209b.* *The American Indian*.]

301b. *Cultural Theory*: Miss Goodale.

Analyses of the important classical and modern contributions.
Prerequisite: Anthropology 203a & b, or by permission of instructor.

[303a. *Ethnological Problems in Oceania*.]

Prerequisite: Anthropology 203a & b.

304a. *Cultural and Personality*: Miss de Laguna.

Prerequisite: Anthropology 203a & b or permission of instructor.

Final Examination: The final examination for students majoring in Anthropology is in three parts:

1. General Ethnology.
2. History and Theory.
3. Culture History, or an allied field.

Preparation for these examinations is offered in the form of advanced courses and the Senior Seminars: 300a, Problems in Ethnography (Miss Goodale), and 300b, Problems in Culture History (Mr. Alexander).

Independent work is offered to seniors of marked ability. If undertaken successfully the first semester, it may be continued as Honors Work.

Biology

Professors: L. Joe Berry, PH.D., *Chairman*

Robert L. Conner, PH.D.¹

Jane M. Oppenheimer, PH.D.

Assistant Professors: Audrey Barnett, PH.D.¹

William G. Hopkins, PH.D.

Visiting Lecturer: William L. Holmes, PH.D.

Lecturer: Jane R. McConnell, PH.D.

Instructors: Lucy MacD. Anderson, PH.D.

Mary Jo Koroly, A.B.

Assistants: Kathryn Gogolin, A.B.

Eva K. Ray, M.A.

The courses offered are designed to present the principles underlying biological science to liberal arts students interested in understanding the biotic world in which man lives and his own position in it. Primary consideration is devoted to the interplay of development, structure and function in determining the unity and diversity which characterize the plant and animal kingdoms, and to the historical and dynamic interrelationships of living organisms with each other and with their environments. In the laboratory the student learns by dissection and microscopic study the gross and detailed anatomy of representative animals and plants, and by experimentation the functional relationships within them and their operation under natural and controlled experimental conditions.

Requirements in the Major Subject: Biology 101, 201, 301, and at least one advanced course and, as allied work, Chemistry 101 and 202. Physics 101, Mathematics 101 and Chemistry 201 are strongly recommended as allied work and are required for admission to some medical schools. The Biology Department has no special language requirements, but students should note that the ability to read French and German is essential for those expecting to do graduate work and is required for admission to some medical schools.

¹ On leave, 1968-69.

Allied Subjects: Chemistry, Physics. Other subjects may be included with the approval of the Department.

101. *General Biology:* Mrs. Anderson, Mr. Berry, Miss Oppenheimer, Mr. Hopkins. Laboratory: Mrs. McConnell and assistants.

A presentation of the fundamental principles of cellular and organismic biology. A wide range of plants and animals is studied to illustrate broad biological problems and theories of historical and contemporary interest. Lectures three hours, laboratory three hours per week.

- 201a. *Developmental Biology:* Miss Oppenheimer.

A presentation of some of the fundamental aspects of experimental embryology. The laboratory encompasses the structural study of vertebrate embryology. Lectures three hours, laboratory four hours per week. Prerequisite: Biology 101.

- 201b. *Genetics:* Mrs. Anderson.

A study of the basic principles of genetics and the modern developments in the field. Lectures three hours, laboratory four hours per week. Prerequisite: Biology 101.

301. *Physiology:* Mr. Hopkins, Mr. Berry.

An integrated course devoted to a study of the activities of cells in terms of physical and chemical processes and of organismic functions characteristic of plants and higher vertebrates. Lectures three hours, laboratory four hours per week. Prerequisites: Biology 101 and 201, Chemistry 101 and 202. Chemistry 202 may be taken concurrently.

- [351. *Advanced Genetics:* Miss Barnett.]

Selected topics in genetics. Each semester may be taken independently for one-half unit of credit. Lectures three hours per week. No laboratory. Prerequisite: Biology 201b.

- [352. *Advanced Plant Physiology:* Mr. Hopkins.]

A study of recent advances in photosynthesis and photomorphogenesis of plants. Lectures two hours, laboratory six hours per week. Prerequisites: Biology 301, Chemistry 202. Chemistry 202 may be taken concurrently.

353. *Biochemistry:* Miss Koroly.

The chemistry of living organisms with special emphasis on the

chemical principles in physiological phenomena. Lectures two hours per week. Prerequisites: Chemistry 202, Biology 301; one or both of these prerequisites may be waived by permission of the Department. Physics 101 is recommended. This course may be taken without laboratory for one-half unit of credit by students concurrently taking Chemistry 203, an advanced course in Biology.

354. *Bacteriology and Immunology*: Mr. Berry.

An introduction to the fundamental physiological and biochemical principles associated with studies of micro-organisms, including host-parasite relationships and the immune response of animals. Lectures two hours, laboratory six hours per week. Prerequisites: Biology 101 and 201, Chemistry 202.

355. *Developmental Biology*: Miss Oppenheimer.

Discussion of factors controlling growth and differentiation in vertebrates and invertebrates. Lectures two hours, laboratory six hours per week. Prerequisite: Biology 101 and 201.

Honors Work: Honors work in any of the advanced fields is offered to qualified students.

Final Examination: The Final Examination consists of one four-hour general examination covering the areas of study of the four years of undergraduate work and two four-hour examinations in specific fields. Students who elect Honors work are excused from one of the field examinations.

Chemistry

Professors: Ernst Berliner, PH.D., *Chairman*
George L. Zimmerman, PH.D.

Associate Professors: Jay Martin Anderson, PH.D.¹
Frank B. Mallory, PH.D.
Joseph Varimbi, PH.D.

Visiting Lecturer: Ernst Fischer, PH.D., *National Science Foundation*
Senior Foreign Scientist

Lecturers: Frances Bondhus Berliner, PH.D.
Bernard F. Laurenzi, PH.D.

Assistants: Robert J. Ferguson, B.A.
Prabhat C. Goswami, M.S.
Mary H. Tryson, A.B.

The major in Chemistry is designed to give the student a sound background in the four major fields of Chemistry: Inorganic, Analytical, Organic and Physical Chemistry. The courses are arranged in such a sequence as to convey an insight into the development of chemical theories from basic scientific principles. In the advanced courses the student begins to be acquainted with current problems in special fields and with modern approaches to their solutions. The emphasis throughout is on the fundamental principles on which Chemistry is based and which are exemplified and further clarified by laboratory work taken in conjunction with each course.

Requirements in the Major Subject: Chemistry 101, the three 200 courses and one unit of advanced work (exclusive of Chemistry 304a). Physics 101, Mathematics 101 and a reading knowledge of German are also required. Students are urged to take also Mathematics 201.

Allied Subjects: Biology, Geology, Mathematics, Physics.

101a. *General Chemistry:* Mr. Mallory, Mrs. Berliner and assistants.

An introduction to the theories of chemistry and the study of the non-metals. Introductory quantitative techniques. No knowledge of chemistry is presupposed. Three lectures, three hours laboratory a week.

¹ On leave, 1968-69.

- 101b. *General Chemistry*: Mr. Berliner, Mrs. Berliner and assistants.

Ionic equilibria and the systematic qualitative analysis of inorganic substances. A study of the metallic elements. Three lectures, three hours laboratory a week.

201. *Inorganic Chemistry*: Mr. Varimbi.

Correlations of chemical and physical properties based on the Periodic Table; Structures of inorganic compounds; Equilibria in acid-base and complex-ion systems. Laboratory work includes analytical techniques, synthesis, purification, and characterization of a variety of compounds by chemical and instrumental methods. Three lectures, five hours laboratory a week.

202. *Organic Chemistry*: Mr. Berliner, Mr. Mallory.

First semester: aliphatic chemistry; second semester: aromatic chemistry and natural products. Three lectures, five hours laboratory a week.

203. *Physical Chemistry*: Mr. Zimmerman, Mr. Laurenzi.

Structure and kinetic-molecular theory of matter, elementary thermodynamics and chemical kinetics. Two lectures and one conference, five hours laboratory a week. Prerequisites: Mathematics 101, Physics 101 and Chemistry 201a. (The latter two may be taken concurrently.)

- 220c. *Introduction to Automatic Computation*: Mr. Snyder and members of several Departments.

Lectures will present basic mathematical material and the fundamentals of numerical analysis. Emphasis will be more on over-all viewpoints than on particular techniques. The laboratory will consist of computer programming with problems drawn as far as possible from the student's major field. Two lectures, two hours laboratory per week. Prerequisite: Mathematics 101 or the equivalent.

See Interdepartmental Course 220c, page 129.

- 301b. *Advanced Inorganic Chemistry*: Mr. Varimbi.

Two lectures a week.

- 302a. *Advanced Organic Chemistry*: Mr. Mallory, Mr. Berliner.

& b. Lectures: theories and fundamental principles of organic chemistry. Laboratory: (first semester) organic qualitative analysis; (second semester) advanced synthesis and laboratory techniques. Two lectures,

six hours laboratory a week. The first semester may be taken without the second half unit).

303a. *Statistical Thermodynamics and Kinetics*: Mr. Zimmerman.

303b. *Quantum Chemistry*: Mr. Laurenzi.

Two lectures and one conference a week. Prerequisite: Chemistry 203a and Chemistry 304a.

304a. *Applied Mathematics for Chemists*: Mr. Laurenzi.

Two lectures and one conference a week. Prerequisite: Mathematics 201, or the equivalent.

56. *Biochemical Mechanisms*: Mr. Dunathan (at Haverford).

Given in second semester. Prerequisite: Chemistry 202.

Final Examination: The examination consists of three parts: a. Analytical and Inorganic Chemistry, b. Organic Chemistry, c. Physical Chemistry.

For one of the subjects above, an examination in an allied subject, covering at least two years of work, may be offered.

Honors Work: Honors work may be taken by qualified students in conjunction with any of the advanced courses.

Classical and Near Eastern Archaeology

Professor: Machteld Mellink, PH.D., *Chairman*

Associate Professors: Brunilde Sismondo Ridgway, PH.D.

Kyle M. Phillips, Jr., PH.D.

Instructor: Adele F. Berlin, A.B.

Assistant: Tamara Steck Wheeler, A.B.

The major courses provide an extensive survey of the ancient Mediterranean and Near Eastern civilizations, with emphasis on Greek art and archaeology.

Requirements in the Major Subject: Archaeology 101, 201b, 203, 205b, and 301.

Allied Subjects: Ancient History, Anthropology, Greek, History of Art, Latin, Akkadian.

101. *An Introduction to Ancient Art: Mrs. Ridgway, Mr. Phillips.*

In the first semester a general survey of the evolution of ancient art is given, beginning with the Egyptian and Mesopotamian heritage, its importance to Aegean art and to the origins of Greek art proper. The major achievements of archaic and classical Greek art are discussed in some detail.

In the second semester the principal features of Hellenistic, Etruscan and Roman art in Italy and throughout the Mediterranean world to the end of the Roman Empire in the West, ca. A.D. 476, are studied.

A fourth hour weekly is devoted to informal discussion.

- 201b. *Egyptian and Mesopotamian Archaeology: Miss Mellink.*

[202a.* *Cultural History of Archaeology: Miss Mellink.*]

- 202b. *Ancient Greek Cities and Sanctuaries: Mrs. Ridgway.*

- 203a. *Greek Sculpture: Mrs. Ridgway.*

The development of Greek sculpture from its beginnings to Roman times. The term paper deals with a piece of sculpture selected by the student.

- 203b. *Later Greek and Roman Sculpture: Mr. Phillips.*

The development of Roman sculpture from its beginnings in Etruscan and Greek Italy and the Hellenistic world to the end of the Roman Empire in the West, ca. A.D. 476. The term paper deals with individual monuments or groups of sculpture selected by the student.

- [205b. *Aegean Archaeology: Miss Mellink.*]

The pre-Greek cultures of the Aegean area; Minoan Crete and related cultures, the encounter of pre-Greeks and Hellenes; the first consolidation and expansion of Greek culture in the Mycenaean age.

- 301a. *Greek Vase-Painting: Mr. Phillips.*

The development of Greek vase-painting as an original form of art, its relation to monumental painting, and its place in Greek archaeological research.

- 301b. *Ancient Architecture*: Mrs. Ridgway.

The ancient architectural tradition in its historical context, with study of the Greek temple as its dominant achievement.

- [303. *Anatolian and Syrian Archaeology*: Miss Mellink.]

A comprehensive course on Near Eastern archaeology with special emphasis on the peripheral and intermediate areas and their connections with the Aegean. Prerequisites: Archaeology 101, 201, 203, 301. The course is meant for seniors and is taught in the form of a seminar with papers and reports.

- 304a. *Ancient Monumental Painting*: Mr. Phillips.

The arts of wall-painting and mosaics in Greece and Italy.

305. *Akkadian*: Mrs. Berlin.

The course will include the study of cuneiform signs, basic Akkadian grammar, and the major legal and literary texts.

Final Examination: One general examination in pre-classical (Egyptian, Mesopotamian, Aegean) and classical archaeology; two special examinations in fields covered by the undergraduate courses, but with questions of a broader scope. Students are encouraged to take one of the special examinations in Greek. During the senior year, majors attend weekly conferences in each of their special fields.

Honors Work: A long written paper is submitted on a topic selected by the student and approved by the Department. In preparation, the student confers throughout the year with the member of the Department under whose direction the paper is prepared.

Excavations: The Department has two excavation projects. The excavation of Karatash-Semayük in Lycia (Turkey) is conducted as a field seminar in the fall, with full credit for graduate students and seniors by invitation. The second project, the excavation of an Etruscan archaic site at Murlo near Siena, takes place during the summer on a non-credit basis for graduate and undergraduate students of archaeology.

Economics

Professors: Morton S. Baratz, PH.D.¹, *Chairman*

Joshua C. Hubbard, PH.D.

Assistant Professor: Richard B. Du Boff, PH.D.²

Visiting Lecturer: Helen Manning Hunter, PH.D.

At Haverford

Professors: Holland Hunter, PH.D.

Howard M. Teaf, Jr., PH.D.

Assistant Professor: Samuel Gubins, A.B.

The major in Economics consists of courses given at Bryn Mawr and at Haverford Colleges. It is designed (1) to provide students with an understanding of economic processes and institutions, (2) to train them in the concepts and methods used to analyze those processes and institutions, and (3) to enable them to make independent policy judgments.

Requirements in the Major Subject: Economics 101a and 102b, and four and one-half units of intermediate and advanced work. The introductory courses, Economics 101a and 102b, are designed to give the kind of informed perspective on economic principles and problems that is an integral part of a liberal education. The group of intermediate courses offers a fuller range of material on major topics in the discipline, and is designed to meet a wide variety of student interests. The group of advanced courses supplies a theoretical and methodological foundation for those planning to make use of economics in their professional careers. All students, especially those who intend to seek an advanced degree in Economics, are strongly urged to take Mathematics 101 or 103, which will count as part of their allied work.

Prospective majors in Economics are advised to take Economics 101a and 102b in the freshman year.

Allied Subjects: Mathematics, Political Science, History, Philosophy, Psychology, Sociology, Anthropology.

¹ On leave, semester I, 1968-69.

² On leave, semester II, 1968-69.

- 101a. *Introduction to Economics*: Mr. Du Boff, Mr. Hubbard.

Study of the principles underlying the determination of the level of national income and employment, and the techniques and institutions which have been devised in the United States for promoting growth in output with minimum instability in prices and employment.

- 102b. *Introduction to Economics*: Mr. Baratz, Mr. Hubbard.

Study of the principles underlying the determination of individual prices and incomes, the issues that arise in international economic affairs, and the problems that face poor countries.

- [201a. *American Economic Development*: Mr. Du Boff.]

Long-term trends in output, resources, technology; structure of consumption, production, distribution; foreign trade and finance; and shorter term variations in business activity and capital investment. Quantitative findings provide the points of departure. Prerequisite: Economics 101a, 102b.

- 202b. *Non-Western Economic Development*: Mr. Hunter.

An introduction to the institutional settings and economic patterns that account for underdevelopment in poor countries, and a review of efforts to overcome barriers to rapid development. Case studies of selected countries in Latin America, Africa or Asia. Prerequisite: Economics 101a, 102b.

- 203a. *Technology, Work and Leisure*: Mr. Teaf (Economics 23 Haverford).

Study of the social and personal problems arising out of rapid technological change and its effect on the labor force. Responses of unions, employers, and public authorities. Arrangements for minimizing insecurity and conflict. Prerequisite: Economics 101a, 102b or two courses in Sociology.

- 204b. *The Modern Corporation*: Mr. Teaf (Economics 24 Haverford).

An analysis of the institutional fundamentals underlying corporate decision-making, and a review of ethical issues surrounding corporate performance in contemporary society. Prerequisite: Economics 101a, 102b.

- 205b.* *Private Enterprise and Public Policy*: Mr. Baratz.

A theoretical and empirical analysis of the structure of industrial markets and the behavior of business firms in a competitive economy;

legal restrictions on business policy; social and political implications of public regulation of private enterprises. Prerequisite: Economics 101a, 102b.

- [206b. *International Economic Theory and Policy*: (Economics 26 Haverford).]

The theory and practice of international trade. The balance of payments, and the theory of disturbances and adjustment in the international economy. Economic integration. Relationships between the rich and the poor countries of the world, and the impact of growth and development on the world economy. Prerequisite: Economics 101a, 102b.

- 207a. *Money and Banking*: Mr. Hubbard.

The development and present organization of the money and banking system of the United States; domestic and international problems of monetary theory and policy. Prerequisite: Economics 101a, 102b.

- 208b. *Public Finance and Fiscal Policy*: Mr. Hubbard.

A study of taxation and expenditures with particular emphasis on the Federal budget; fiscal policy as a positive means of shaping public taxation and expenditure so as to contribute to a stable full-employment economy. Prerequisite: Economics 101a, 102b.

- 209a. *Economics of Urban Poverty*: Mr. Gubins (Economics 29 Haverford).

Study of economic aspects of urban poverty problems, investment in human resources, financing of urban services, relations between income and earnings; theoretical and empirical analysis of benefits and costs of poverty programs. Prerequisite: Economics 101a, 102b.

- 210b. *The Soviet System*: Mr. Hunter (Economics 32 Haverford).

An analysis of the structure and functioning of major Soviet economic, political and social institutions. Current arrangements are studied as products of historical development. Present performance and prospects are evaluated. Prerequisite: Two semester courses in Economics, Political Science, or History.

See Interdepartmental Course 210b, page 129.

- [211a. *Latin American Economies and Politics*: Mr. Baratz, Mrs. Marshall.]

Analysis of certain fundamental economic and political problems in Latin America. Open to students who have had at least one year of Political Science (for prerequisites, see page 114) or Economics. Pref-

erence given to those with a reading knowledge of Spanish or Portuguese. Offered in alternate years.

See Interdepartmental course 305a, page 129.

[212b. *Comparative Economic Systems*: Mr. Du Boff.]

An historical analysis of economic theory and philosophy (mercantilist, physiocratic, classical and neoclassical, Marxian and socialist, and Keynesian) and their relevance to capitalistic institutions and contemporary capitalism as a socioeconomic system. Prerequisite: Economics 101a, 102b.

213a. *Business and National Accounting*: Mr. Teaf (Economics 41 Haverford).

A study of the fundamentals of corporate accounting and their extension to the national accounts. Emphasis is placed in the derivation of the major reports of businesses and of the national economy. Prerequisite: Economics 101a, 102b.

[214b. *Theories and Problems of Change*: Mr. Hubbard.]

An analysis of the Industrial Revolution with particular reference to the pattern of dynamic growth and the Classical, Marxian, Neoclassical and Modern Theories. Prerequisite: Economics 101a, 102b. Offered in alternate years.

216a. *Western European Economic Development*: Mr. Du Boff.

Selected topics in the economic history of Britain, France, Germany and Italy since 1760 are examined, both theoretically and empirically. Representative topics will include economic growth, the "industrial revolution" and technological change, demographic trends, international trade and finance, the impact of the world wars, and the effects of national economic policies. Prerequisite: Economics 101a or 102b.

300b. *Research Seminar on Human Resources, Poverty and Urban Economics*: Mr. Gubins (Economics 30 Haverford).

Students will engage in independent empirical research on selected manpower development, poverty, and urban problems of the Philadelphia region. Weekly seminars will be concerned with problems arising out of research, particularly methodology and conceptual issues. Prerequisite: Economics 209a or permission of the instructor.

- 301a. *Statistical Methods in Economics*: Mrs. Hunter.

An introduction to the concepts and procedures that underlie quantitative analysis of economic and other social data. Frequency distributions, probability and sampling, time series, index numbers, regression analysis, computer programming. Prerequisite: Economics 101a, 102b.

- 302b. *Introduction to Econometrics*: Mrs. Hunter.

Quantitative methods for economic analysis and forecasting. Students may choose to emphasize either theoretical or empirical work. Each student will do a project using multiple regression. Prerequisite: Economics 301a or permission of instructor.

- 303a. *Macroeconomic Analysis*: Mr. Gubins (Economics 45 Haverford).

Rigorous review of the theoretical foundations of income determination, monetary phenomena, and economic fluctuations. Introduction to dynamic processes. Prerequisite: Economics 101a, 102b.

- 304b. *Microeconomic Analysis*: Mr. Gubins (Economics 46 Haverford).

Systematic investigation of analytic relationships underlying consumer welfare, efficient resource allocation, and ideal pricing. Introduction to operations research. Prerequisite: Economics 101a, 102b.

- [305a. *Development Analysis*: Mr. Hunter (Economics 47 Haverford).]

Theoretical treatment of the structural changes associated with the process of economic development, especially in poor countries, and rigorous analysis of criteria for policy judgments in development programming. Introduction to input-output and linear programming methods. Prerequisite: Economics 101a, 102b.

- 306a. *Empirical Seminar*: Mr. Hunter (Economics 61 Haverford).

Current problems, selected in accordance with student interests, are investigated with the aid of economic theory and quantitative methods. Research paper required. Prerequisite: Economics 301a, 302b.

Final Examination: The Final Examination for students majoring in Economics consists of:

1. An examination in general economic principles and problems;
2. An examination in economic theory; and
3. An examination in one of the following:

- a. Monetary-Fiscal Theory and Policy
- b. Private Enterprise and Public Policy, including Corporations
- c. International Economics
- d. Comparative Economic Systems, including the Soviet System
- e. Labor Economics
- f. Economic History, American or Western European
- g. Economics of Development
- h. Quantitative Methods in Economics

With the permission of major and allied departments, one examination may deal with an allied subject.

Non-majors will be permitted to take a Final Examination in Economics if the Department of Economics judges their prior work in the discipline adequate.

Honors Work: One unit of Honors work may be taken by students recommended by the Department.

Education

President of the College: Katharine Elizabeth McBride, PH.D.

Professor and Director, Child Study Institute:

Rachel Dunaway Cox, PH.D., *Chairman*

Associate Professor: Ethel W. Maw, PH.D.

Associate Professor and Director, Thorne School:

Susan E. Maxfield, M.S.

Assistant Professors: Emmy A. Pepitone, PH.D.

Faye P. Soffen, PH.D.¹

Instructor: Beth M. Riser, M.A.

Assistant: Lelia Brodersen, M.A.

The work in Education is designed for students preparing for teaching or for work with children in a variety of fields. The curriculum treats the nature and development of the child, the psychology of teaching

¹ On leave semester I, 1968-69.

and learning, and principles of measurement. It deals with the history, philosophy and objectives of the school as a social institution.

Although there is no major in Education, a sequence of courses in the Department enables the student to prepare for teaching. Students expecting to teach are urged to confer with the Department during the freshman year. With careful planning at that time, work leading to the certificate to teach in the secondary school in most states can be taken concurrently with a liberal arts major.

The certificate to teach in the elementary school requires some substitutions in the list above plus additional requirements which differ from state to state. The basic work offered by this Department must be supplemented by courses taken elsewhere.

The Phebe Anna Thorne School is maintained by the Department of Education as a laboratory for child study where undergraduates have experience with young children. The pre-school program, in which advanced students assist, provides training for those planning to teach.

The Department also operates the Child Study Institute. This is a mental health service supported by the College, by the Lower Merion Township Schools and by a grant-in-aid from the Commonwealth of Pennsylvania. Problems of learning and behavior are studied; psychological testing, psychiatric treatment, remedial teaching and a program of counseling for children and parents are carried on. Advanced students participate in the work, and undergraduate and graduate students observe in the schools.

[101b. *The Social Foundations of Education*: Miss McBride.]

The organization and objectives of the school and principles of child development, of learning and of guidance which should be taken into account if these objectives are to be achieved.

102b. *History and Philosophy of Education*: Mrs. Pepitone.

A study of the interrelation of education and culture from earliest times to the present day with particular consideration given to current educational issues as they are rooted in the historical process.

[201a. *Educational Psychology*: Mrs. Maw.]

Psychology and measurement related to educational objectives particularly from the point of view of what is currently known about human

social, affective, cognitive and learning behavior. Laboratory work is required.

206a. *Child Psychology*: Mrs. Cox.

The development of the child from infancy to maturity. Physical, intellectual and emotional growth and learning in the family and the school. Two hours laboratory per week in the Thorne School. Prerequisite: Psychology 101a.

301a. *Principles of Teaching in the Secondary School*: Mrs. Maw.

The objectives, curriculum and organization of the secondary school. The nature of the learner and his relation to the school program and aims. Two-hour seminar per week; 12 hours teaching in the junior or senior high school.

302a. *Principles of Teaching in the Elementary School*: Mrs. Maw.

The objectives and curriculum of the elementary school. The nature of the learner and the learning process during the early school years. Two-hour seminar per week; 12 hours practice-teaching in the elementary school.

[Students electing Education 301a or 302a should note that student-teaching requires returning to the Bryn Mawr area early in September. Registered students may come into residence on the last day of Freshman Week but must make their own plans for living arrangements.]

Certificate to Teach

Requirements for the state certificate to teach in the public secondary school can be met by the appropriate selection of courses in this Department and in the major field or fields. Though each state has its own requirements, most follow the same pattern, namely the Bachelor of Arts degree with emphasis upon a content area offered in the secondary school plus eighteen semester hours of professional preparation for teaching. At Bryn Mawr the suggested sequence includes Psychology 101 followed by the Social Foundations of Education and Educational Psychology. The student then takes either History and Philosophy of Education or Child Psychology, depending upon her interest and prior training. Required of all is Principles of Teaching in the Secondary School which includes as its laboratory, twelve hours a week of supervised student teaching in the public school.

Selected Graduate Seminars: For certain undergraduates who have taken Child Psychology the following graduate seminars are open upon the consent of the instructor.

Problems of Child Development: Mrs. Cox.

Diagnosis and Remediation of Learning Deficit: Mrs. Riser.

Advanced Clinical Evaluation: Mrs. Cox.

Psychology majors who have completed Psychology 306b may be admitted by permission of instructor.

English

Professors: Isabel Gamble MacCaffrey, PH.D.¹

K. Laurence Stapleton, A.B.

Associate Professors: Robert B. Burlin, PH.D., *Chairman*

Robert H. Butman, M.A.

Thomas H. Jackson, PH.D.

Assistant Professors: Roger W. Cummins, PH.D.

Gwenn Davis, PH.D.

Peter J. Leach, M.F.A.

Robert L. Patten, PH.D.¹

Clifford E. Ramsey, PH.D.

Visiting Lecturers: Harold E. Pagliaro, PH.D.

Matthias A. Shaaber, PH.D.

Lecturers: Sandra M. Berwind, PH.D.

Joan L. Klein, PH.D.

Instructors: Ramona T. Livingston, A.B.

Katrin Norton, M.A.

Virginia B. Pennypacker, M.A.

To the student planning to major in English the Department offers courses covering all periods of English literature. The student selects

¹ On leave, 1968-69.

her fields within this broad range and devotes special attention to one period or literary genre.

Requirements in the Major Subject: Students majoring in English must take English 101 or 102 unless they have the recommendation of the Department to enter a second-year course. They must complete four second-year and advanced courses in English literature, of which at least one should be an advanced course. The choice of units for the major should represent several different periods. Students who offer a field in the Middle Ages must take some courses in later periods, and those specializing in modern literature must take English 201 or 300 or 301, or, in exceptional cases, certain other courses approved by the Department. Credit will not be given for a single semester's work in full-year courses unless the Dean of the College recommends, and the Department approves, that an exception be made.

Allied Subjects: The student is advised to build a strong ally in classical or modern literature, History, Philosophy or History of Art. With the permission of the Department, certain courses in Music, History of Religion, Political Science, Sociology and Linguistics may also be counted. Any second-year or advanced writing course may be substituted for one unit of allied work.

Writing, Language, and Speech

15. *English Composition and Reading:* Mrs. Berwind, Mr. Cummins, Miss Davis, Mrs. Klein, Mr. Leach, Mrs. Livingston, Mrs. Norton, Mrs. Pennypacker.

Practice in writing based upon the study of selected authors, with emphasis upon ideas and the problems of the writer in his time. The student will read fiction, poetry, and critical and argumentative prose in one of the following fields: (a) Literature of the twentieth century; (b) American Literature, 1840 to the present; (c) English Literature of the Renaissance; (d) Themes and Forms in Literature. There will be weekly papers and discussions, and regular conferences.

In the three following courses, 209, 215a and 306, weekly papers are usually required. Students who cannot meet this requirement should not elect any of these courses.

- 209.* *Experimental Writing*: Mr. Leach.

Practice in various forms of writing, fiction and non-fiction. Attention is paid to the needs and interests of each student. Prerequisite: English 15 at Bryn Mawr or the written permission of the instructor.

- 210a.* *Playwriting and Production*: Mr. Butman.

Writing of two original one-act plays.

- 210b.* *Advanced Playwriting and Production*: Mr. Butman.

Writing of a full-length play and preparation of its production-book. Prerequisite: approval of the instructor.

- [211.* *Verse Composition*: Miss Stapleton.]

Original verse composition, with a study of the principles of form.

- [215a.* *Prose Writing*: Mr. Leach.]

Practice in various forms, excluding fiction and with emphasis on exposition and description. Prerequisite: English 15 at Bryn Mawr or the permission of the instructor.

- 306c.* *Advanced Writing*: Mr. Leach.

Practice in various forms of writing with the emphasis on technical problems. Prerequisite: English 209.

Literature

101. *Introduction to English Literature*: Miss Davis.

A critical study of major works and representative writers, with emphasis upon the historical context and the growth of literary tradition.

102. *Readings in English Literature*: Mr. Ramsey.

Readings are chosen to illustrate particularly the development of genres and the themes related to them. A different, unified group of works will be used each semester.

201. *Chaucer and His Contemporaries*: Mr. Burlin.

The first term will be devoted to a close reading of the *Canterbury Tales*. The second term will concentrate upon Chaucer's early poems and the *Troilus* with supplementary readings from the Middle English period.

202. *The Eighteenth Century*: Mr. Ramsey.

The beginnings of the classical period; the age of Pope and Swift; the eighteenth century novel; Dr. Johnson and his circle.

203. *The Romantic Period*: Mr. Pagliaro, Mr. Jackson.

English Literature from 1789 to 1832. Attention is centered upon the poets.

- [204. *The Victorian Period*: Mr. Patten.]

Major poets and novelists, the prose of Carlyle, Mill, Ruskin and others. Some attention is given to the drama.

- [205. *Representative English Novelists*.]

The development of English fiction with emphasis on the novel as a literary form.

- 206b. *Restoration Drama and the Age of Dryden*: Mrs. Klein.

Heroic drama, the comedy of manners, sentimental comedy: Dryden's poetry and criticism; readings in social, religious, and philosophic writings of the Restoration.

207. *Twentieth Century English and American Literature*: Mr. Jackson.

Modern literature in its relationship to earlier literary and intellectual traditions, major themes and technical achievements, seen through intensive study of such writers as Yeats, Joyce, Eliot, and other major figures.

208. *American Literature*: Mr. Cummins.

Main themes and formal traditions from the colonial period to the present.

- 214b. *English Prose of the Sixteenth Century*: Miss Davis.

Major emphasis will be placed on satire and the prose romances.

- [215b. *Modern Drama*: Mrs. Klein.]

Shaw and his contemporaries; Irish playwrights, including Synge, O'Casey, and Yeats; more recent playwrights such as Eliot, Fry, and Pinter.

- [300. *Old English Literature*: Mr. Burlin.]

After a brief introduction to the language and some reading of prose, the first term will be devoted to short lyrics and questions of Old English poetic style; the second term, to a careful study of the text and critical problems of *Beowulf*.

[302. *The Sixteenth Century: Mrs. MacCaffrey.*]

Emphasis will be placed on the poetry, beginning with Wyatt, and with special attention to Spenser and the non-dramatic poetry of Shakespeare. There will also be reading in the prose writing and the background of the period.

[303a. *Elizabethan and Jacobean Drama.*]

A rapid survey of earlier periods is followed by closer study of Elizabethan and Jacobean Drama, excluding Shakespeare.

304. *Shakespeare: Mr. Shaaber.*

During the year all the plays are read, and several are studied in detail.

305. *The Seventeenth Century: Miss Stapleton.*

Among the writers studied are Bacon; Donne and the Metaphysical poets; Ben Jonson and his school; Sir Thomas Browne. About half of the time is devoted to Milton, and special attention is given to the thought of the period.

309b. *Medieval Narrative: From Beowulf to Malory: Mr. Burlin.*

A study of the heroic traditions in medieval epic and romance. Continental and Old English works will be read in translation. A reading knowledge of classical epics will be expected.

Final Examination: The Final Examination is in three parts:

1. Literary criticism, literary genres, and problems of style based upon the reading of certain critical works of fundamental importance. Each student is expected to draw illustrative material from the fields in which she has elected to work.
2. An examination in one of the following periods. The student must choose a period other than that which embraces her special field.
 - a. The Middle Ages (to 1500)
 - b. Later Middle Ages and Early Renaissance (1370-1600)
 - c. The Renaissance (1500-1660)
 - d. Neo-Classicism and Romanticism (1660-1832)
 - e. The Nineteenth and Twentieth Centuries (English or English and American)
3. An examination in one of the following fields of concentration: Old English; Middle English; The Drama to 1642; Elizabethan Litera-

ture, non-dramatic; The Seventeenth Century; The Eighteenth Century; Romanticism; Victorian Literature; The Novel; The Drama from 1660 to the Present Time; English and American Literature, 1890-1939; American Literature.

With the consent of the Department an examination in an allied subject may be substituted for the examination in the special field.

Honors Work: In the senior year Honors work, consisting of independent reading, reports and conferences, is offered to students of marked ability. Honors papers are due on April 25.

French

Professors: Michel Guggenheim, PH.D., *Chairman*

Mario Maurin, PH.D.

Assistant Professors: Ellen S. Ginsberg, PH.D.

M. Pauline Jones, PH.D.

Catherine Lafarge, PH.D.

Visiting Lecturer: Marcel Gutwirth, PH.D.

Instructor: Margaret S. Maurin, PH.D.

Assistant: Mary Annette Palmer, M.A.

The major in French includes work in both literature and language. In the first year students are introduced to the study of French literature, and special attention is given to the speaking and writing of French. Two second-year courses treat French literature from the beginning to the present day. In these courses, students whose command of written French is inadequate will be required to attend regularly sessions devoted to special training in writing French. A third second-year course is devoted to advanced language training with practice in spoken as well as in written French.

Advanced courses offer detailed study of individual authors, genres and movements. Students in all courses are encouraged to make use of the tapes available in the Language Laboratory. In French 1, 2, and 203c, the use of the Laboratory forms an integral part of the course.

French majors find it valuable to supplement the work done at Bryn Mawr by study abroad either during the Junior Year or during the summer at the *Institut* in Avignon. Residence in French house for at least one year is advisable.

Requirements in the Major Subject: French 101, 201, 202 and one advanced literature course. Students whose preparation for college has included advanced work in language and literature may, with the consent of the Department, substitute a more advanced course for French 101. Occasionally, students may be admitted to seminars in the Graduate School. Such arrangements are made at the suggestion of the Department.

Allied Subjects: Any other language or literature, European History, History of Art, Music, Philosophy.

001. *Elementary French:* Miss Lafarge, Miss Jones.

The speaking and understanding of French are emphasized, particularly during the first semester. The course meets five times a week.

002. *Intermediate French:* Mrs. Ginsberg, Miss Lafarge.

The emphasis on speaking and understanding French is continued, texts from French literature are read, and short papers are written in French.

101. *Readings in French Literature with Practical Exercises in the French Language:* Members of the Department.

The works read are chosen from various periods and genres, and include drama, poetry, novels and short stories. Oral expression and practice in writing are emphasized.

- 201a. *French Literature of the Seventeenth Century:* Mr. Guggenheim.

The course will cover representative authors and literary movements of the century, including works of Corneille, Pascal, Molière, Racine, La Fontaine and La Bruyère. Special attention will be given to the concept of the Baroque, the development of Tragedy and the Age of Classicism.

- 201b. *French Literature of the Eighteenth Century:* Miss Lafarge.

The course will include texts representative of the Enlightenment and the Preromantic movement, with emphasis upon the development

of liberal thought as illustrated in the *Encyclopedie* and the works of Montesquieu, Voltaire, Diderot, and Rousseau.

- 202a. *French Literature of the Nineteenth Century*: Miss Jones, Mr. Maurin.

The poetry, drama and prose of Romanticism. A study of representative novelists such as Stendhal, Balzac, and Flaubert. Poetry in the second half of the century: the aesthetics of the Parnasse, Baudelaire, the Symbolist movement.

- 202b. *French Literature of the Twentieth Century*: Mr. Guggenheim, Mr. Maurin.

A study of selected works illustrating the principal literary movements from the turn of the century to the present. Special attention will be given to Gide, Proust, Valéry and Claudel; the surrealist poets and their successors; the renaissance of the theater from Giraudoux to Beckett; the ideological and existentialist novel as represented by Malraux, Sartre, and Camus.

- [203a. *French Literature of the Middle Ages and the Renaissance*: Mrs. Ginsberg.]

Representative works of major authors of the Middle Ages (in modern French versions). Selected readings in the sixteenth century, with emphasis on Rabelais, Montaigne, and the Pléiade.

- 204a. *French Stylistics*: Mr. Maurin.

Selected texts from the Renaissance to the contemporary period are submitted to stylistic analysis.

- 205c. *Advanced Training in the French Language*: Mr. Guggenheim, Mrs. Ginsberg.

Intensive practice in writing and speaking the language. Compositions, literary translations, oral reports and discussions.

- [301. *French Lyric Poetry*: Miss Jones.]

In the first semester special attention is given to the poetry of the sixteenth and early seventeenth centuries, and in the second, to the poetry of the last hundred years.

302. *French Drama*: Mrs. Ginsberg, Mr. Guggenheim.

A survey of the French theater, from liturgical drama to the "Theater

of the Absurd." Special attention will be given to the drama of the seventeenth and twentieth centuries.

303. *The French Novel from 1700 to 1960*: Miss Lafarge, Mr. Maurin.

The development of French fiction from the eighteenth century *roman de moeurs* to the *Nouveau Roman*. In the first semester particular attention will be paid to novelists such as Marivaux, Rousseau, Diderot, Laclos, Stendhal, and Balzac. In the second semester works by such major novelists as Flaubert, Zola, Proust, and Gide will be discussed.

- [304. *French Essayists and Moralists*: Mr. Guggenheim, Mr. Maurin.]

Man and his world as interpreted by such writers as Montaigne, Pascal, Diderot, Gide, Camus, and Sartre.

- 305a. *Baudelaire*: Miss Jones.

- 305b. *Malraux and Camus*: Mr. Maurin.

COURSES AT HAVERFORD

41. *Rabelais*: Mr. Raskin.

42. *Proust*: Mr. Cook.

Junior Year Abroad: Students majoring in French may, by a joint recommendation of the Dean of the College and the Department of French, be allowed to spend their junior year in Paris under one of the junior year plans, organized by Sweet Briar College or Smith College.

Summer Study: Students wishing to enroll in a summer program may apply for admission to the *Institut d'Etudes Francaises d'Avignon*, held under the auspices of Bryn Mawr. The *Institut* is designed for selected men and women undergraduate and graduate students with a serious interests in French culture, most particularly for those who anticipate professional careers requiring a knowledge of the language and civilization of France. The curriculum includes general and advanced courses in French language, literature, history and art. The program is open to students of high academic achievement who have completed a course in French at the third-year college level, or the equivalent.

Final Examination: The Final Examination is in three parts:

1. An oral examination consisting of an explication of a French literary text.

2. A three-hour written examination on a period of French literature.
3. A three-hour written examination on the development of a literary genre through French literature.

An examination in an allied subject may be substituted for one of the two written examinations.

Honors Work: On the recommendation of the Department, students in their senior year will be admitted to Honors work consisting of independent reading, conferences and a long paper.

Geology

Professors: Edward H. Watson, PH.D., *Chairman*
Lincoln Dryden, PH.D.

Assistant Professors: Maria Luisa B. Crawford, PH.D.
William A. Crawford, PH.D.
J. Duncan Keppie, PH.D.

Assistants: Roddy V. Amenta, M.S.
John D. Scott, B.S.

The Department seeks to make students more aware of the physical world around them. The subject includes a study of the nature of the materials of which the earth is made, of the physical processes which have formed the earth and especially the earth's surface, of the history of the earth and its organisms, and of the various techniques necessary to investigate earth processes and history. Geology borrows widely from its sister sciences, combining many disciplines into an attack on the problem of the earth itself. An essential part of any geologic training lies outside the classroom, in field work.

Requirements in the Major Subject: Geology 101, 201, 202, one advanced course. In addition, at least one of the following first-year courses is normally required: Biology, Chemistry, or Physics. The sixth unit may be chosen in Geology or in an allied field approved by the Department.

Allied Subjects: Biology, Chemistry, Physics, Mathematics. Anthropology, Archaeology, Economics or Statistics may be accepted in special cases.

- 101a. *Physical Geology:* Mr. Watson.

Laboratory: Mrs. Crawford, Mr. Crawford, Mr. Keppie.

A study of earth materials; earth structure; surface processes such as the atmosphere, weathering, stream action, oceans, glaciers, earthquakes and volcanoes; and of the features to which they give rise. Three lectures, four hours of laboratory or field work a week.

- 101b. *Historical Geology:* Mr. Dryden. *Laboratory:* Mrs. Crawford, Mr. Crawford, Mr. Keppie.

The history of the earth from its beginning, and the evolution of the living forms which have populated it. Three lectures, four hours of laboratory or field work a week. A three-day field trip is taken in the spring.

- [201. *Crystallography and Mineralogy:* Mr. Watson.]

Crystallography, elementary crystal optics, descriptive and determinative mineralogy, and elementary petrology and economic geology. Three lectures, six hours of laboratory a week.

202. *Paleontology:* Mr. Dryden.

A systematic survey of animal groups in geologic time; in addition, a study of the environment of fossil life, and theories of evolution. Three lectures and three hours of laboratory a week.

301. *Structural and Field Geology:* Mr. Watson, Mr. Keppie.

The origin and analysis of the structures of igneous, sedimentary and metamorphic rocks, and geological surveying. Three lectures, six hours of laboratory or field work a week.

302. *Stratigraphy:* Mr. Dryden.

The origin and formation of sedimentary rocks; geologic history of typical regions of the United States; elements of petroleum geology; and study of the Ice Age.

303. *Physiography:* Mr. Crawford, Mrs. Crawford, Mrs. Keppie.

The origin of land forms: a study of chosen areas from the viewpoint

of topography, geologic structures, processes of erosion, climate and soils. In general, Geology 101 is a prerequisite.

Final Examination: This is in three parts:

1. An examination in General Geology.
2. An examination in some special field in Geology.
3. *One* of the following:
 - a. An additional special examination in Geology
 - b. A general examination in an allied field
 - c. A written report on a piece of individual work

Honors Work: Honors work in any of the advanced fields is offered to any student who has completed the first two years in Geology with distinction.

Certain graduate courses are open to properly trained undergraduates.

German

Professor: Christopher E. Schweitzer, PH.D., *Chairman*

Associate Professor: Hans Bänziger, PH.D.

Assistant Professor: Nancy C. Dorian, PH.D.

Lecturer: Danuta S. Lloyd, M.A.

Instructor: Katherine L. Holli, M.A.

The purpose of the major in German is to lay the foundation for an understanding and appreciation of German literature and civilization. To this end comprehension of the German language, of both the spoken and the printed word, is indispensable; all courses above German I are therefore given in German and progressive linguistic training is provided. Students in all courses are encouraged to make use of the tapes available in the Language Laboratory. In German 1 and 201c the use of the Laboratory forms an integral part of the course. This work should be supplemented, whenever possible, by living in the German House, or by spending a summer in one of the summer schools of Germany, Austria or Switzerland; and/or by spending the junior year in Germany.

The German departments of Bryn Mawr College and Haverford

College cooperate to offer the widest possible range of courses to students in both colleges. Advanced Haverford courses are, therefore, listed below. One course (Bryn Mawr 306a; Haverford 37) is offered jointly.

Requirements in the Major Subject: The normal course sequence for the major is German 101, 201C, 202, 300a, and at least one other advanced course. Special consideration is given to students who have supplemented their linguistic training as outlined above.

Allied Subjects: Any language or literature, History, Political Science, Philosophy, Music, History of Art.

001. *Elementary German* (Speaking and Reading): Members of the Department.

The course, meeting five times a week, offers the foundation of the language with emphasis on the aural-oral method. Increased importance is given to reading as the course progresses.

101. *Readings in German Literature:* Miss Holli, Mrs. Lloyd.

Continued practice in speaking and writing. Reading and discussion of selected works of German literature, including poetry, novellae, and drama. Emphasis will be on nineteenth and twentieth century authors.

- 201C. *Advanced Training in the German Language:* Mr. Schweitzer.

Advanced training in speaking and writing; stylistic exercises; reading of contemporary non-fictional material, including newspapers; oral reports and discussions; compositions.

- 202a *The Age of Goethe:* Mr. Schweitzer.

- & b. German literary movements in the period 1750-1830, with emphasis on the works of Lessing, Goethe, Schiller, and the Romantics.

- 300b. *German Literature from the Beginnings to the Baroque:* Miss Holli.

An intensive survey of the literature of the Middle Ages, Humanism and the Reformation, and representative works of the Baroque period. The older works will be read in modern German translations.

- [301b. *Introduction to Germanic Philology:* Miss Dorian.]

History of the language situation in the German-speaking world from the earliest records until the present day.

- [302b. *German Language and Literature of the Middle Ages*: Miss Holli.]
Introduction to the German language and culture of the Middle Ages. Reading of representative works such as *Der arme Heinrich*, *Tristan* and selections from *Minnesang*, in the original language.
- [303. *The Classics of the Nineteenth Century*: Mr. Schweitzer.]
A survey of German literary developments from the death of Goethe to Nietzsche and Hauptmann, with special emphasis on the great dramatists and lyric poets.
- [304. *Modern German Literature*: Mr. Bänziger.]
Close study of the works of several major writers, among them Thomas Mann, Franz Kafka, and Bertolt Brecht, within the context of modern Western literature.
- 305a. *The German "Novelle."* See below, German 38 Haverford.
- 306a. *German Drama*: (German 37 Haverford) : Mr. Bänziger, Mr. Cary.
Study of selected major themes and playwrights. Emphasis will be on the confrontation of the individual with political and philosophical authority.
- 306b. *Modern German Drama*: Mr. Bänziger.
Trends in German drama of the nineteenth century to the theatre of the absurd. Emphasis will be on the plays of Brecht and Dürrenmatt.
- [307b. *German Poetry*: Miss Holli.]
Study of the work of major poets from a number of literary periods. Various critical approaches will be discussed and used.

COURSES AT HAVERFORD

- German 38. *The German "Novelle"*: Mr. Bauer.
Study of the genre and literary technique of the "Novelle" through reading and discussion of representative works of the nineteenth and twentieth centuries.
- German 43. *Advanced Topics: The Modern German Novel in the Context of the Existentialist Movement*: Mr. Jayne.
A survey of Rainer Maria Rilke, Hermann Broch, and Robert Musil.
- German 44. *Advanced Topics: The Faust Theme in Literature and Folklore*: Mr. Cary.
Emphasis will be on Goethe's *Faust* and Mann's *Dr. Faustus*.

Final Examination: The Final Examination is in three parts:

1. An oral examination on selected masterpieces of German literature.
2. An examination on the history of a literary form, or on the history of the German language, or on an allied subject.
3. An examination on a period of German literature, or on an allied subject, if none has been offered under 2.

Honors Work: On recommendation of the Department, students in the senior year will be admitted to Honors work consisting of independent reading, conferences and a substantial paper.

Greek

Professors: Mabel Louise Lang, PH.D., *Chairman*

Richmond Lattimore, PH.D., LITT.D.¹

Instructors: Gregory W. Dickerson, M.A.

James McCaughey, M. LITT.

The courses in language and literature are designed to acquaint the students with the various aspects of ancient Greek culture through a mastery of the Greek language and a comprehension of Greek mythology, religion and the other basic forms of expression through which that culture developed. The works of poets, philosophers and historians are studied both in their historical context and in relation to subsequent Western thought.

Requirements in the Major Subject: Greek 1, 101, 102 (half-unit), 201 and 301.

Allied Subjects: Ancient History, Classical Archaeology, History of Art, any language, Philosophy.

001. *Elementary Greek:* Miss Lang.

Elements of grammar with prose composition and selected reading from ancient authors and the *New Testament* in the first semester; in the second semester, the *Apology* and *Crito* of Plato.

¹ On leave, 1968-69.

101. *Herodotus and Tragedy*: Miss Lang, Mr. McCaughey.
Prose composition is required.
- 102b. *Homer*: Mr. McCaughey.
201. *Plato, Thucydides and Tragedy*: Mr. Dickerson.
Prose composition is required.
301. *Hesiod, Lyric Poetry and Comedy*: Mr. Dickerson, Mr. McCaughey.
- 203.* *Greek Literature in Translation*: Miss Lang, Mr. McCaughey.
The epic, lyric and dramatic poetry as well as the early prose works are examined and interpreted as expressions of Greek culture.
- Final Examination*: The Final Examination for students majoring in Greek consists of:
1. Sight Translation of Greek to English.
 2. Two examinations from the following fields: Homer, Attic Tragedy, Lyric Poetry and Aristophanes, Fifth-Century Historians, Fourth-Century Attic Prose. A student may substitute for one of these, an examination in one of the Allied Subjects.
- Honors Work*: Honors may be taken either in conjunction with the advanced course or after its completion.

History

Professors: Caroline Robbins, PH.D., *Chairman*

Arthur P. Dudden, PH.D.

Elizabeth Read Foster, PH.D., *Dean of the Graduate School*

Associate Professors: Mary Maples Dunn, PH.D.

Alain Silvera, PH.D.¹

Assistant Professors: Charles M. Brand, PH.D.¹

Barbara M. Lane, PH.D.

Lecturer: Joseph Airo-Farulla, M.A.

Instructor: Mary C. Hendrickson, M.A.

Assistant: Gerard G. Innocenti, M.A.

¹ On leave, 1968-69.

From Other Departments

Assistant Professor of the History of Biology: Charles A. Culotta, PH.D.

Assistant Professor of Latin: Russell T. Scott, PH.D.

Instructor in Classical & Near Eastern Archaeology: Adele F. Berlin, A.B.

Instructor in Greek and Latin: Gregory W. Dickerson, M.A.

The History major is designed to enable the student to acquire a sense of historical perspective and an insight into historical method. Courses stress the development of ideas, cultures and institutions—political, social and economic—rather than the accumulation of data about particular events. The students are required to study some topics and periods intensively in order to learn the use of documentary material and the evaluation of sources. Extensive reading is assigned in all courses to familiarize majors with varied kinds of historical writing and, in most year courses, critical or narrative essays are required.

Requirements in the Major Subject: Students are usually expected to complete four units of history and two units of allied work, the selection of courses, planned in the spring of the sophomore year, depending upon the choice of the general fields of concentration and the special interest of the student. Two general fields, and one more concentrated, are elected from the list given below under Final Examination. Students must also elect work outside the fields of concentration.

Allied Work: A wide choice is open to majors in History; in general those in modern fields will find courses in the Social Sciences most suitable, while those in earlier periods may select, with the permission of the departments concerned, courses in Classical Studies, in Philosophy and Art. Intermediate or advanced courses in Literature and in Language may also serve to enrich the major-offering.

201. *History of England to 1660:* Miss Robbins.

The treatment is topical, although a general chronology is maintained. Prehistoric, Roman, Saxon, Norman and later English society, constitutional, economic and intellectual development are among the subjects studied. Ireland, Scotland and Wales receive special attention.

- [202. *The Development of the United States of America:* Mr. Dudden.]

A study of American national life in the nineteenth and twentieth centuries, with emphasis upon the transformations altering the original Republic.

- 203b. *Medieval Civilization*: Miss Hendrickson.

Western European development from the fall of Rome to about 1350. Economic, institutional and intellectual developments in the major kingdoms of the West and the history of the Latin Church will be included. Given in alternate years.

205. *Ancient History*: Mrs. Berlin, Mr. Dickerson.

The first semester is devoted to study of the history of the ancient Near East and of Greece to the rise of Macedon; the second to the history of Rome and the Hellenistic world to the reign of Constantine I. The course demands essays, and reading of typical sources for each period.

Students should ordinarily not elect both 205 and 206.

206. *Topics in European History*: The Department.

The course is designed to give a broad view of the development of European civilization from the fall of Rome to the present, as well as a deeper understanding of special problems in European History and interpretation. The general question, "What is history?" is discussed, and a number of selected topics investigated, among them, for example, "Renaissance Florence: The Medici as patrons, politicians, and bankers," and "The Diplomacy of Imperialism: The Congress of Berlin."

- [207. *Latin America: Colonies and Revolutions*: Mrs. Dunn.]

In the first semester the conquest of South America, the transplantation and modification of European institutions, the colonial society, economy, and culture will be studied; in the second semester, the revolutionary movements, and the establishments of new nations.

- [208. *Byzantine Empire*: Mr. Brand.]

Political, institutional and cultural history of the Byzantine (Later Roman) Empire from the reforms of Diocletian and conversion of Constantine to the capture of Constantinople in 1453. Contacts with Arabic, Turkish, Armenian, Slavic and West European peoples will be stressed.

209. *Early American History, 1607-1789*: Mrs. Dunn.

In the first semester, an investigation of the founding of the English colonies in North America and the West Indies, and their development in the seventeenth and early eighteenth centuries. In the second semes-

ter, emphasis will be placed on the causes and interpretations of the Revolution, the writing and ratification of the Constitution.

[210. *Topics in the History of the Near East*: Mr. Silvera.]

A survey of the European impact on the Ottoman Empire and the Arab world in the nineteenth and twentieth centuries. Among the topics to be studied will be the legacy of Islam, the Imperial policies of Great Britain and France, the rise of Arab nationalism.

212a. *Europe 1336-1648*: Mr. Airo-Farulla.

& b. *The closing of the Middle Ages: Europe in the fourteenth century* (semester I): The course will deal with the decline of the Medieval Church and the spread of heresy; the conflict between Church and State; the Hundred Years War; the closing of the European frontier; early Italian humanism.

Religious struggles and the reshaping of Europe: 1555-1648 (semester II): The course will take up the Spanish Empire under Philip II, the Catholic Reformation and the expansion of Calvinism, the Thirty Years War, the emergence of absolutism in France, the impact of the expansion of Europe overseas.

213a. *Minority Peoples in the United States*: Mr. Dudden.

An introductory program of investigations into the uneven results of acculturation, assimilation and emancipation. This course will encourage students to undertake biographies within selected social groupings, and it will also be directed toward the problem of achieving social biography in an aggregate sense. Numerous reports will be required as well as a semester's essay. For sophomores and juniors only. Offered in alternate years.

214a. *History of Science*: Mr. Culotta.

& b. Historical changes in the concept "science" are examined. Emphasis is placed on the history of man's ideas about himself and the universe. The first semester covers the development of science from antiquity to the seventeenth century. The second semester continues into the twentieth century by developing select topics and their philosophical and social impact.

225. *Europe since 1848*: Mrs. Lane.

The main political, social and cultural developments of the European

states since mid-nineteenth century: their diplomatic relations and imperial expansion. The first semester will extend to the First World War.

- [301. *Europe in the Twentieth Century*: Mrs. Lane.]

The first semester extends to the First World War and includes the military phases of the war; the second semester deals with the period from the Russian Revolution to the present.

303. *Recent History of the People of the United States*: Mr. Dudden.

Studies of social change and response beginning with the late nineteenth century, together with considerations of scientific and technological innovations and the problems peculiar to the construction of the history of the recent past. Topics will include religion, government, education, economics and the main currents of thought and artistic expression. With permission, students may elect one semester only.

- [304. *English History: the Victorians and Edwardians*: Miss Robbins.]

Round-table discussion each week of different aspects of activity in the period; parliamentary reform; the Chartists; early labor movements and utopian socialists; the formation of the parliamentary labor party; trade unions; urban reform; welfare legislation; legal changes; ecclesiastical currents of opinion, the Oxford movement, the sects and free-thinkers, the Catholic revival; Pugin and the Gothic revival; the Great Exhibition and popular taste, the social artists and the departure from realism; Ireland, the great famine, the Fenians, the rise of Sein Fein; the imperialists; prime ministers and foreign secretaries; the character and role of the monarchs.

- [305. *Renaissance and Reformation*: Mr. Airo-Farulla.]

The course is concerned with European History from the fourteenth to the sixteenth century. The first term deals with the Renaissance, the second with the Reformation. Emphasis will be placed not only on the political and social developments, but also on the intellectual history of the period. Offered in alternate years.

- [306a. *The Enlightenment*: Miss Robbins.]

The intellectual history of the seventeenth and eighteenth centuries is studied in seminar discussions of selected books illustrating, amongst other things, the scientific revolution, the growth of skepticism, the traveler and the movement of ideas, morality and taste, optimism, the

philosophic critics and analysts of government, law and international relations.

- 306b. *Great Historians*: Miss Robbins, Mrs. Dunn.

Each week the work of one or two historians is read and discussed in relation to the historical and scholarly presuppositions of its age. Emphasis is laid on reading and analysis rather than on any attempted survey of historical literature. The course, however, pursues a roughly chronological order starting with the Greeks and ending with Spengler and Toynbee.

- 309a. *The Emergence and Decline of States in Europe and Asia in the Seventeenth and Eighteenth Centuries*: Miss Robbins.

Among topics discussed will be: the decline of Spain, Poland and the Mogul Empire; the ascendancy of France; the rise of Sweden, Russia, Prussia, the Manchu Dynasty; mercantilism and the commercial revolution; the structure of absolutism, mixed monarchy and federal governments; the development and rivalries of the French, English and Dutch East India Companies; religious controversies and movements, Jesuit, Jansenist, Deist, Mystic.

- 310a. *Mexico: A Study in Tradition and Revolution, Historical Continuity and Change*: Mrs. Dunn.

Emphasis will be placed on cultural conflict; the historical development of institutions such as church, hacienda, caciquismo; and on the nature and dynamics of the protracted revolutionary movement from Hidalgo to Cardenas. Prerequisites: History 207, or Interdepartmental 305a, or by permission of the instructor. Offered in alternate years.

COURSES AT HAVERFORD

37. *Europe 1787-1848*: Mr. Spielman.
41. *Recent American Urban History*: Mr. Mendelbaum.
43. *Russian History*: Mrs. Gerstein.
55. *Topics: The French Revolution, 1787-95*: Mr. Spielman.
56. *Topics in the Nineteenth Century*: Mrs. Gerstein.
57. *Topics in British History, 1560-1640*: Mr. Fussner.
58. *Topics in Historiography*: Mr. Fussner.

Final Examination: The Final Examination consists of three parts, two in general fields of study and one in a more specialized area. All students attend regular conferences in the first semester of their senior year to assist their preparation in the general fields selected.

General Fields: Medieval Europe, 378-1300; Europe, 1300-1648; Europe, 1648-1830; Europe, 1830-1950; The Americas, 1492-1825 and The Americas, 1825-1950.

Special Fields: Medieval, English, American, Russian, Near Eastern.

Each year the Department selects one or more topics from these fields appropriate to the interests of the coming senior class, and arranges conferences for them in semester II. With the permission of the department concerned, students may elect to write their third examination in an allied field.

Honors Work: Students admitted to this work meet the instructor regularly for the discussion of reading in a selected period. An essay based on source material must be presented before May 1. The award of the degree with Honors in History will depend on the character of this honors paper and the candidate's performance in the final examination.

History of Art

Professor: Charles Mitchell, M.A., B. LITT., *Chairman*

Associate Professors: Anne Coffin Hanson, M.A.C.A., PH.D.¹

James E. Snyder, M.F.A., PH.D.¹

Assistant Professor: Charles G. Dempsey, M.F.A., PH.D.

Artists in Residence: Fritz Janschka, *Akad. Maler*¹

Katja P. Oxman

Lecturers: Arthur S. Marks, M.A.

John David Summers, M.A.

Assistants: Bruce M. Cole, M.A.

Nancy R. Fabbri, M.A.

Curator of Slides: Carol W. Carpenter, A.B.

The Department regularly offers an introductory course (involving some studio work), a series of general intermediate courses and more

¹ On leave, 1968-69.

concentrated advanced half-courses, and instruction on special topics to majors in their senior year. The program is open also to undergraduates of Haverford College.

Further studio work without academic credit is available by arrangement. For this there is no tuition fee.

Requirements in the Major Subject: At least four units of course-work in art-history, normally including Art 101 and always one unit of advanced course-work, together with two units of allied work. Intermediate courses with supplementary work may sometimes be counted as advanced at the discretion of the Department.

Students contemplating a major in History of Art are strongly advised to consult the Department as early as possible in their College careers.

Allied Subjects: History, Latin, Greek, Modern Languages, Archaeology; others in consultation with the Department.

101. *Introduction to Art History:* The Department.

The course is designed as an introduction to the methods and scope of art history in the field of Western art from medieval to modern times. Studio work, two hours weekly.

200. *Western Sculpture:* Mr. Summers.

A general intermediate course on the history of western sculpture from medieval to modern times.

202. *Renaissance Art:* Mr. Mitchell.

European Renaissance art from the fourteenth to the sixteenth century.

203. *Baroque Art:* Mr. Dempsey.

European art from the late sixteenth to the early eighteenth century.

204. *Modern Art:* Mr. Marks.

European art from the late eighteenth to the twentieth century.

- 302b. *The Late Michelangelo:* Mr. Summers.

An advanced course requiring a knowledge of Italian.

- [311b. *Aspects of Medieval Art.*]

- 312a. *Topics in Renaissance Art:* Mr. Mitchell.

Select topics to be studied in detail.

- 313a. *Problems in Baroque Art*: Mr. Dempsey.
An advanced course requiring a knowledge of Italian.
- 314b. *English Art from Hogarth to Millais*: Mr. Marks.
Comprehensive Conferences. Members of the Department hold regular conferences with Senior Majors on their special subjects.
Final Examination: This is in three parts, each of three hours:
1. An examination to test knowledge of works of art.
2. A general examination on the history of art.
3. An examination on a special topic.
Honors Work: Offered to suitable students on invitation of the Department.

History of Religion

Professor: Howard C. Kee, PH.D., *Chairman*

Associate Professor of Philosophy: Jean A. Potter, PH.D.

Courses in the History of Religion may be taken as electives or in connection with certain major fields as allied work.

No major is offered in the History of Religion.

103. *Biblical Literature*: Mr. Kee.
The history, literature, and interpretation of the Bible, with special emphasis on analysis of text and literary forms.
- 201a.* *The Religion of Israel*: Mr. Kee.
The origins and development of Hebrew religion against its ancient Near Eastern background until the Christian era.
- 201b.* *The Beginning of Christianity*: Mr. Kee.
A study of the emergence of the Christian movement, with special attention to the mission of Jesus and the foundation of the early church.
- 204a. *Philosophy of Religion*: Miss Potter.
The existence and nature of God and the character of religious language.
This course is also listed as Philosophy 204a.

- 204b. *Medieval Philosophy*: Miss Potter.

The history and development of medieval philosophy from its origins in classical and Patristic thought to the fifteenth century.

This course is also listed as Philosophy 204b.

Italian

Lecturers: Nancy Howe, M.A.

Antonio C. Mastrobuono, M.A.

The aims of the major are to acquire a knowledge of the Italian language and literature and an understanding of Italian culture and its contribution to Western civilization. Majors in Italian are urged to spend the Junior year in Italy or to study in approved summer schools in Italy or in the United States.

Requirements in the Major Subject: Italian 1, 101, 201, 202, and one other advanced course. For students who enter College with Italian, proper substitutions will be made.

Allied Subjects: Any other language or literature, History, History of Art, Philosophy, Music, Political Science; with departmental approval, any other field allied to the student's special interests. In all courses students are urged to use tapes available in the Language Laboratory.

001. *Italian Language*: Miss Howe, Mr. Mastrobuono.

A practical knowledge of the language is acquired through hearing, speaking, writing, and reading, going from concrete situations to the expression of abstract ideas and with a gradual introduction to the reading of Italian literature. The course meets five times a week and is conducted entirely in Italian.

101. *Intermediate Course in the Italian Language*: Miss Howe.

Readings from modern Italian authors and topics assigned for composition and discussion, conducted entirely in Italian.

- [102c.* *Dante in English Translation*.]

The *New Life* and *Divine Comedy*.

[103c.* *Literature of the Italian Renaissance in English Translation.*]

From Petrarch to Tasso; pastoral literature; literary criticism and aesthetic theories of the Renaissance, with special reference to their influence on other literatures.

201. *Classics in Italian Literature*: Mr. Mastrobuono.

Reading and explanation of texts, with a study of literary history; conducted in Italian.

202. *Dante*: Mr. Mastrobuono.

The *Vita Nuova* and *Divina Commedia*, with some attention to the minor works. With departmental approval, open to anyone who can read Italian.

[302c. *Advanced Course in the Italian Language.*]

Advanced work in composition.

[303. *Italian Literature of the Rinascimento.*]

[304. *Italian Literature of the Romantic Period*: Mr. Mastrobuono.]

305. *Twentieth-Century Italian Literature*: Miss Howe.

Junior Year Abroad: Students approved by the Department and the Dean may be recommended for the Junior year in Florence under the auspices of the Smith College Group.

Final Examination: The Final Examination is in three parts:

1. The Italian Language: ability to understand and speak the spoken idiom; ability to write the language.
2. Italian Literature and Literary History.
3. The study of a single genre or topic throughout Italian literature, or an examination on an allied subject.

For the second part, the emphasis may be placed on the Medieval, Renaissance, Romantic or Modern period.

Honors Work: After the completion of the second-year course a student may be recommended for Honors in Italian. The student works in a special field adapted to her own interest under the direction of the Department.

Latin

Professor: Agnes Kirsopp Michels, PH.D., *Chairman*¹

Associate Professor: Myra L. Uhlfelder, PH.D., *Acting Chairman*

Assistant Professor: Russell T. Scott, PH.D.

Instructors: Gregory W. Dickerson, M.A.

Bruce W. Frier, M.A.

The major in Latin is planned to give the students familiarity with the most important works of Latin literature and with the Roman contribution to the post-classical world.

Requirements in the Major Subject: Latin 101 or 102, 201 and either 301 or 302. 203a is a prerequisite for Honors work, and students who plan to teach are strongly advised to take this course.

Allied Subjects: Greek, History, Classical and Near Eastern Archaeology, History of Art, History of Religion, Philosophy, and any modern literature.

001. *Elementary Latin:* Miss Uhlfelder, Mr. Frier.

Basic grammar with composition and selected readings from Latin authors in the first semester. In the second semester selected readings from prose authors and from Vergil's *Aeneid*, with exercises in composition. Students who have had two years of Latin in school may enter the course in the second semester. Those who complete the course satisfactorily will be eligible to take Latin 101 or 102.

101a. *Latin Literature:* Mr. Frier.

A play of Plautus, and selections from the poems of Catullus and the *Eclogues* of Vergil.

101b. *Latin Literature:* Mr. Dickerson.

Selections from Livy, Book I, and from Horace's *Odes*.

102a. *Readings in Latin Literature:* Mr. Dickerson.

Readings from prose authors, Catullus, and the *Eclogues* of Vergil, with special attention to problems of language, for students who need a review of basic grammar.

¹ On leave, 1968-69.

- 102b. *Readings in Latin Literature*: Mr. Frier.
Selections from Livy, Book I, and from Horace's *Odes*.
- 201a. *Horace and Ovid*: Mr. Frier.
Reading from the *Satires* and *Epistles* of Horace, and from the *Fasti* and *Metamorphoses* of Ovid.
- 201b. *Latin Literature of the Silver Age*: Mr. Scott.
Reading from the works of the chief authors with special attention to the development of literary types during the period.
202. *Medieval Latin Literature*: Miss Uhlfelder.
The reading includes selections from important writers from the late Roman Empire to the thirteenth century. This course may be taken either as a half or as a whole unit. Students who have not taken Latin 101 or 102, but wish to take Latin 202 as an elective or allied course, should consult the instructor.
- 203a. *Latin Style*: Mr. Scott.
A study of Latin prose style, based on the reading of prose authors, with exercises in composition, and of Latin metrics with practice in reading aloud.
- 301a. *Livy and Tacitus*: Mr. Frier.
- 301b. *Vergil's Aeneid*: Miss Uhlfelder.
- [302a. *Lucretius*: Miss Uhlfelder.]
- [302b. *Cicero and Caesar*: Mr. Scott.]

Senior Seminar: In preparation for the Final Examination, seniors will meet regularly with members of the Department for discussion of their reading in Latin literature.

Final Examination: The Final Examination consists of three three-hour examinations in the following fields:

1. Latin Sight Translation.
2. Latin Literature.
3. One of the following:
 - a. An allied subject (Greek, if possible)
 - b. A special period of Roman history

- c. The development of an important Latin literary genre
- d. Roman rhetoric
- e. A special author
- f. An important genre or theme in Medieval Latin literature

Honors Work: Honors work in either classical or medieval Latin or in Roman history is offered to qualified seniors. The subject will be determined by the interests of the student. The work is carried out under the direction of one member of the Department and the results are presented in a paper.

Mathematics

Professors: John C. Oxtoby, M.A., *Chairman*
Frederic Cunningham, Jr., PH.D.

Assistant Professors: Ethan D. Bolker, PH.D.
Martin Avery Snyder, PH.D.

Assistant: Robert H. Plummer, M.A.

The major is designed to provide a balanced introduction to the subject, emphasizing its nature both as a deductive and as an applied science, at the same time providing the technical foundation for more advanced study. The courses in calculus are basic for all applications of mathematical analysis and for more advanced work in function theory. The courses in algebra and geometry introduce the student to some of the unifying ideas and postulational methods that are characteristic of much of modern mathematics.

Requirements in the Major Subject: Mathematics 101, 201, 202C, 301, 303a, and at least one other advanced half course.

Allied Subjects: Chemistry, Economics, Philosophy, Physics and Psychology.

101. *Calculus, with Analytic Geometry:* Mr. Oxtoby, Mr. Cunningham.

Differentiation and integration of algebraic and elementary transcendental functions, with the necessary elements of analytic geometry

and trigonometry. The interplay between mathematical ideas and applications is exploited.

201. *Second-Year Calculus*: Mr. Bolker.

The definite and indefinite integral, infinite series, partial derivatives, multiple integrals, differential equations, with applications.

- 202c. *Solid Analytic Geometry and Algebra*: Mr. Cunningham.

Determinants, vectors, matrices, and selected topics from the Theory of Equations; linear algebra motivated by and applied to space geometry; classification and transformation of planes and quadric surfaces.

- 220c. *Introduction to Automatic Computation*: Mr. Snyder and members of several Departments.

Lectures will present basic mathematical material and the fundamentals of numerical analysis. Emphasis will be more on over-all viewpoints than on particular techniques. The laboratory will consist of computer programming with problems drawn as far as possible from the student's major field. Two lectures, two hours laboratory per week. Prerequisite: Mathematics 101 or the equivalent.

See Interdepartmental Course 220c, page 129.

301. *Advanced Calculus*: Mr. Oxtoby.

The classical theory of real functions, based on Cantor's construction of the real number system; the Riemann integral, functions defined by power series, Fourier series, functions of several variables. Prerequisite: Mathematics 201.

- 303a. *Introduction to Abstract Algebra*: Mr. Bolker.

Permutations, abstract groups, rings, and fields; uniqueness of factorization. Prerequisite: Mathematics 202c.

- [304b. *Theory of Probability with Applications*.]

Probability in discrete sample spaces, stochastic independence, Laplace Limit Theorem, Poisson distribution, random walk, and recurrent events—with applications to physics and statistics.

- [306b. *Number Theory*: Mr. Bolker.]

Prerequisite: Mathematics 303a.

- [307. *Numerical Analysis*: Mr. Snyder.]

Prerequisite: Mathematics 201.

308. *Introduction to Applied Mathematics*: Mr. Snyder.

Interdependence of mathematics and scientific problems; vectors, tensors, matrices, ordinary and partial differential equations, eigenfunction expansions; complex variables and transform techniques. Prerequisite: Mathematics 201.

- [310. *Theory of Functions of a Complex Variable*: Mr. Oxtoby.]

Special functions, conformal mapping, the general theory according to Cauchy, singular points, Laurent series, series of partial fractions, infinite products, elliptic functions. Prerequisite: Mathematics 301.

- [311a. *Differential Equations*: Mr. Oxtoby.]

General methods, existence theorems, linear equations and Wronskians, oscillation and separation theorems, partial differential equations and boundary-value problems. Prerequisite: Mathematics 201.

- [312b. *Topology*: Mr. Cunningham.]

Prerequisite: Mathematics 301 or 303a.

Final Examination: The Final Examination consists of three parts: (a) an examination in analysis, (b) an examination in algebra and geometry, and (c) an examination in some particular branch of advanced analysis or geometry, or in an allied field.

Honors Work: Qualified students are admitted to Honors work on recommendation of the Department.

Music

Professor and Director of Chorus:

Robert L. Goodale, A.B., B.MUS., A.A.G.O., *Chairman*

Professor and Director of Ensemble Groups: Agi Jambor, M.A.

Assistant Professor: Isabelle Cazeaux, PH.D.

Visiting Lecturer: John H. Davison, PH.D.

Assistant: Myrl Hermann, A.B.

Director of Orchestra: William H. Reese, PH.D.

The purpose of the Music major is to enable the student to appreciate the significance of music from an historical and sociological as well as from an aesthetic point of view and to develop a technique of intelligent listening, a faculty of critical judgment and the ability to use the materials of music as a means of expression for creative talent.

Students in the courses in History and Appreciation of Music must devote two hours or more a week to listening to recordings.

Requirements in the Major Subject: Music 101, 102, and at least two and one-half units of additional work, the selection of courses depending upon the student's desire to specialize in the history and literature of music or the technique of composition. A student intending to major in Music must have sufficient knowledge of pianoforte or organ playing to enable her to play music of the technical difficulty of a Bach figured chorale. She is strongly urged to be a member of the Chorus or the Orchestra and/or an Ensemble Group.

Allied Subjects: History, History of Art, Modern Languages, English, Greek, Latin, Philosophy, History of Religion.

101. *An Introduction to the History and Appreciation of Music:*

Miss Cazeaux, Mme. Jambor, Mr. Goodale.

A comprehensive survey, with special emphasis on the technique of intelligent listening.

102. *Music Materials:* Mr. Goodale.

A course in the elements of theory. The study of harmony and counterpoint, simple formal analysis and an introduction to orchestration.

201. *Romantic Music*: Miss Cazeaux.

A concentrated study of selected works of representative composers of the Romantic period and a historical treatment of the music of the age. Prerequisites: Music 101 and 102, or permission of the instructors.

202. *Advanced Theory and Analysis*: Mr. Goodale.

A continuation of Music 102, with emphasis on analysis (harmonic, contrapuntal and formal) of larger forms. Prerequisite: Music 102 or its equivalent.

203a. *Bach*: Mme. Jambor.

Prerequisite: Music 101 or its equivalent.

203b. *The Classical Period*: Mme. Jambor.

Prerequisite: Music 101 or its equivalent.

205a. *Musical Criticism*: Miss Cazeaux.

Prerequisite: Music 101.

[301a. *Music of the Twentieth Century*: Mr. Goodale.]

A survey of the music of the period and concentrated analysis of key works. Prerequisites: Music 101, 102, and 202 or their equivalents. Music 202 may be taken concurrently.

301b. *Opera and Music Drama*: Miss Cazeaux.

The evolution of opera from its origins to the twentieth century. Prerequisites: Music 101 and 102 or their equivalents.

[302a. *Medieval and Early Renaissance Music*: Miss Cazeaux.]

The rise of liturgical music in the early Christian Church. The development of polyphony in the tenth century, and the evolution of sacred and secular music up to 1450. Prerequisites: Music 101, 102 or their equivalents. Alternate with Music 301.

[302b. *Late Renaissance and Baroque Music*: Miss Cazeaux.]

The great periods of vocal counterpoint during the fifteenth and sixteenth centuries. The creation of new forms in the seventeenth century and the development of dramatic and instrumental music up to the time of Bach. Prerequisites: Music 101 and 102 of their equivalents. Alternate with Music 301b.

[303b. *Orchestration*: Mr. Goodale.]

Prerequisites: Music 101, 102 and 202 or their equivalents. Music 202 may be taken concurrently with this course.

304a. *Interpretation of Keyboard Music, Seventeenth Century to the Present*: Mme. Jambor.

Prerequisites: Music 101 and 102 or their equivalents.

305. *Free Composition*: Mr. Goodale.

This course is designed for those students whose chief interest lies in the field of composition. It may be taken only with the permission of the instructor.

Work in dictation, sight-singing and keyboard will be offered on an extra-curricular basis. Music majors will be expected to take this course. It will also be open to other interested students.

Honors Work: Honors work is offered for students recommended by the Department.

Final Examination: The Final Examination consists of three parts with three-hour examinations in each:

1. The History of Music.
2. The Theory of Music:
3. Special field, which may be taken in an allied subject.

The following organizations, carrying no academic credit, are sponsored by the Department:

The College Chorus, a group of about 90 members. The Bryn Mawr College Chorus combines with the Haverford College Glee Club both in rehearsals and in the presentation of programs. Several major choral works from different musical periods are offered in concerts during the course of the year.

The Orchestra, organized jointly with Haverford College. It plays concerts of its own, and frequently joins the Chorus in the presentation of major works.

The Ensemble Groups, also organized jointly with Haverford College. Students in these groups are afforded the opportunity of studying chamber-music literature at first hand, as well as the experience of playing in public at student recitals.

Lessons in pianoforte, organ and voice may be taken at the student's expense, with no academic credit. Lessons in other instruments may be arranged. The Department will be glad to assist in these arrangements.

Philosophy

Professors: Milton Charles Nahm, B. LITT., PH.D., *Chairman*

José Maria Ferrater Mora, *Lic. F.L.*

George L. Kline, PH.D.

Isabel Scribner Stearns, PH.D.

Associate Professor: Jean A. Potter, PH.D.

Assistant Professor: Robert K. Meyer, PH.D.

Teaching Resident: Joyce Trebilcot, PH.D.

Assistants: Stanley O. Hoerr, B.D.

Taras D. Zakydalsky, M.A.

The major work is planned to acquaint the student with the historical and systematic interrelations of the significant philosophic concepts in Western thought, as well as to provide training in the techniques proper to the subject.

The courses in Greek Philosophy and Modern Philosophy provide the major students with a common background, training and language. Further study offers additional historical information, as well as insight into methodology and systematization, with training in the techniques of logic and theory of value. Metaphysics, aesthetics and other advanced studies, besides their intrinsic importance, show the relations of philosophy to art, science, history, mathematics and religion.

The Department aims to provide training sufficiently broad in scope and technical in procedure to equip the student for analytical, critical and productive speculation.

Requirements in the Major Subject: Students majoring in Philosophy are required to take the first-year half-course in Greek Philosophy; the second-year half-courses in Modern Philosophy, Ethics, Logic and Kant; one additional second-year half-course from among the courses listed at the 200 level; and two advanced half-courses from among the courses listed at the 300 level. Under special circumstances and with the permission of the department, students may take second-year courses for advanced credits.

Allied Subjects: Biology, Chemistry, Economics, English, History, History of Art, Mathematics, Music, Physics, Political Science, Psychology,

classical and modern literatures, and certain courses in Anthropology, History of Religion and Sociology.

101a. *Greek Philosophy*: Members of the Department.

& b. A study of the origins and development of philosophic thought in Ancient Greece, with particular emphasis on the major works of Plato and Aristotle.

201a. *Modern Philosophy*: Members of the Department.

& b. A study of the development of modern philosophic thought from Descartes to Kant. Prerequisite: Philosophy 101a.

202a. *Kant*: Mr. Ferrater Mora.

A close examination of some central themes in the *Critique of Pure Reason*.

202b. *Recent Metaphysics*: Miss Stearns.

The metaphysics of Mead, Bergson, Whitehead and related thinkers.

203a. *Logic*: Mr. Meyer.

An introduction to modern logic.

203b. *Ethics*: Mr. Kline.

A close study of classical texts, with attention to such problems as moral obligation, sanction, values, and principles.

204a. *Philosophy of Religion*: Miss Potter.

The existence and nature of God and the character of religious language.

204b. *Medieval Philosophy*: Miss Potter.

The history and development of medieval philosophy from its origins in classical and Patristic thought to the fifteenth century.

[205b. *Contemporary Philosophy: Analytic.*]

[206b. *Contemporary Philosophy: Existential.*]

209b. *Western Political Philosophy*: Mr. Kline.

A study of the fundamental problems of modern Western political thought, based on an analysis of the writings of the leading theorists.

301a. *Aesthetics*: Mr. Nahm.

Types of aesthetic theory and problems concerning art, fine art, productivity, aesthetic judgment and aesthetic criticism.

- 301b. *Philosophy of Criticism*: Mr. Nahm.

The philosophy of criticism will be concerned with some of the problems in the criticism of art and fine art raised in the writings of some of the following writers: Plato, Aristotle, Longinus, Philostratus, Leonardo da Vinci, Dryden, Kant, Schiller, Nietzsche, Bergson, Croce, Coleridge, and Bradley.

- 303a. *Plato*: Miss Stearns.

A detailed study of some of Plato's later dialogues.

- 304a. *Texts in Medieval Philosophy*: Miss Potter.

A concentrated study of one or two of the important writings in medieval philosophy.

- 305a. *The Concept of Time*: Mr. Kline.

A systematic examination of the status and interrelations of past, present, and future; possibility, actualization, and the "actualized"; the problem of temporal irreversibility, and the role of memory.

- [305b. *Russian Philosophy*.]

- 306b. *Philosophy of Mind*: Miss Trebilcot.

The nature of persons explored through recent work in such topics as minds and machines, the identity theory, human freedom, and the nature and explanation of action.

- [307a. *Hegel*.]

- [307b. *Philosophy of Language*.]

- [308b. *The Philosophies of Schopenhauer, Marx and Nietzsche*.]

- [309b. *Theory of Knowledge*.]

- 310b. *Philosophy of History*: Mr. Ferrater Mora.

The philosophical interpretation of history, its meanings and laws.

- [311b. *Aristotle*.]

- 312b. *Philosophy of Science*: Mr. Meyer.

A survey of some key issues in the conceptual foundations of modern science, e.g., the nature of scientific explanation, causality and freedom in physics and biology, the empirical and the mathematical sciences.

- [313b. *Thomas Aquinas*.]

Final Examination: The Final Examination consists of two written examinations and work done throughout the senior year in a seminar combined with tutorial sessions. One examination must be taken in the work of a major philosopher, the second in a systematic field, each to be chosen by the student at the end of her junior year.

The seminar emphasizes critical thinking on a central philosophic issue.

Honors Work: Honors work consists of independent reading and conferences with the instructor, directed to the preparation of a paper on a subject dealing with the technical problems of philosophy or emphasizing the connection of philosophy with general literature, history, politics and science, or with some special field in which the student is working.

Physics

Professors: Walter C. Michels, PH.D., *Chairman*

Rosalie C. Hoyt, PH.D.

John R. Pruett, PH.D.

Assistant Professor: John R. Olson, PH.D.

Assistants: Charlotte F. Feerman, B.S.

Patricia M. Mooney, A.B.

Michael J. Shea, M.S.

The courses offered to students majoring in Physics emphasize the techniques that have led to our present state of understanding of the material universe rather than facts about the universe; they are designed to relate the individual parts of physics to the whole rather than to treat them as separate disciplines. In her progress from a general survey of the subject in her first-year course to the preparation for the final examination in the senior year, the student applies her growing grasp of experimental and logical techniques to increasingly independent studies of physical phenomena.

Requirements in the Major Subject: Physics 101, 201a, 202b, 302b, and 306a, and at least one and one-half units of advanced work, to be chosen from 301a, 303b, 304, 305c; Chemistry 101; Mathematics 101 and 201. A third unit of Mathematics is strongly recommended. Students are encouraged to meet some of the major and allied requirements by advanced standing or placement examinations.

Allied Subjects: Biology, Chemistry, Geology, Mathematics, Philosophy, Psychology.

101. *Introduction to Modern Physics:* Miss Hoyt, Mr. Olson.

A study of the principal phenomena of classical and modern physics in the light of the developments of the past sixty years. Three lectures and three hours of laboratory a week.

- 201a. *Electricity and Magnetism:* Mr. Michels.

Behavior of electric currents, elementary direct current and alternating current circuit theory, magnetic effects of currents, electrostatic phenomena, Maxwell's equations, applications to atomic phenomena. Three lectures and four hours of laboratory per week. Prerequisites: Physics 101, Mathematics 201 (may be taken concurrently).

- 202b. *Optics:* Mr. Pruett.

Geometrical optics, interference and diffraction phenomena, polarization, dispersion, and scattering studied from the point of view of electromagnetic radiation; spectra and the Bohr atom. Three lectures and four hours of laboratory per week. Prerequisites: Physics 201a, Mathematics 201 (may be taken concurrently).

- 301a. *Classical Mechanics:* Mr. Olson.

Newtonian mechanics of particles and of rigid bodies, consequences of special relativity theory, generalized mechanics, vibrations and waves, applications to atomic and nuclear phenomena. Three lectures and four hours laboratory per week. Prerequisites: Physics 201a, 202b, Mathematics 201.

- 302b. *Atomic and Nuclear Structure:* Miss Hoyt.

Development of quantum theory and wave mechanics with applications to atomic structure and spectroscopy. Nuclear structure models and reactions. Fundamental particles. Two hours of discussion a week. Prerequisite: Physics 303b (may be taken concurrently).

303b. *Thermal Properties of Matter*: Mr. Michels.

The application of mechanics and probability concepts to systems of particles; the laws of classical thermodynamics and their connection with statistical models; equilibrium and transport problems; classical and quantum statistics. Three lectures and four hours laboratory per week. Prerequisites: Physics 301a, Mathematics 201.

304. *Introduction to Theoretical Physics*: Miss Hoyt, Mr. Michels.

The application of generalized mechanics to coupled systems and continuous media; electric, magnetic, and electromagnetic fields; radiation. Emphasis is placed on boundary value problems. Mathematical methods are developed as needed. Four hours a week. Prerequisites: Physics 201a, 201b and 301a (may be taken concurrently), Mathematics 201. Mathematics 301 or Chemistry 203 may be substituted for Physics 301a and 303b.

305c. *Physical Measurements*.

Precision measurements of electromagnetic, optical and atomic phenomena. Four hours of laboratory a week. Prerequisites: Physics 301a and 303b (may be taken concurrently).

306a. *Unified Classical Physics*: Mr. Pruett.

A general coverage of classical physics (including relativity and classical quantum theory) from a more mature point of view than is possible in earlier courses. The subject matter covered in Physics 201a, 202b, 301a, and 303b is integrated and extended in preparation for the Final Examination in the Major Subject. Two hours of discussion a week. Prerequisite: Physics 301a (may be taken concurrently).

Final Examination: The Final Examination for students majoring in Physics is in three parts:

1. Foundations of Physical Theory (required of all students).
2. Descriptive Physics. A student may substitute an approved examination in an allied field for this examination.
3. An examination in the special field of Atomic and Nuclear Physics (required of all students).

Honors Work: Honors work may be taken by seniors recommended by the Department. It consists of reading and experimental work on some problem of physics.

Political Science

The Caroline McCormick Slade Department of Political Science

Professor: Gertrude C. K. Leighton, A.B., LL.B., *Chairman*

Associate Professor: Melville T. Kennedy, Jr., PH.D.

Assistant Professors: Charles E. Frye, PH.D.

Marc H. Ross, M.A.

Dean of the College: Dorothy Nepper Marshall, PH.D.¹

Professor of Philosophy: George L. Kline, PH.D.

The major in Political Science is concerned with study of theories of government and with analysis of the structures and processes of modern political communities.

Requirements in the Major Subject: Students majoring in Political Science must take a minimum of four units in the major and two in allied work. At least one unit of major work must be taken in advanced courses. As a prerequisite to all other courses offered, majors must complete one unit of work chosen from among the following: 201a, 203a, 204b, 205a, 206b, 207b, 209b. Students who are not majors in the Department may meet this prerequisite in the same way, or alternatively by completing one half unit of allied work and one half unit in Political Science chosen from the list of courses above. For required fields in the major, see page 116 under Final Examination.

Non-majors wishing to take a field in preparation for the final examination in Political Science must consult the chairman in advance of taking courses in the special field. With the permission of the Department, courses at Haverford College, other than those listed below, may be taken for major or allied credit.

Allied Subjects: Anthropology, Economics, Education, History, Philosophy, Psychology and Sociology. With the permission of the Department, certain courses offered by the modern language departments may be accepted as allied subjects.

¹ On leave, semester I, 1968-69.

- 201a. *American National Politics*: Mr. Ross.

An examination of politics in the United States today. The focus is upon American values, the manner in which they are perpetuated, the institutions they support, the ways in which they do or do not facilitate political change, and the role they play in the organization and management of political and social conflicts.

- 203a. *Government and Politics in East Asia*: Mr. Kennedy.

An approach to modern Asian politics (prior to 1950) through a study of the major philosophic and institutional features of dynastic China and areas under Chinese cultural influence. India and Japan are considered for comparative purposes.

- 204b. *Communism and Nationalism in Asia*: Mr. Kennedy.

A consideration of the central concepts in communism and nationalism and of their role in the sweeping changes Asia has experienced since World War II.

- 205a. *Government and Politics in Western Europe*: Mr. Frye.

A comparative analysis of the contemporary political systems of Great Britain, France and Scandinavia, with special reference to factors making for stable and effective democracy.

- 206b. *Values, Science and Politics*: Miss Leighton.

Designed as a study of the discipline of political science, the course examines the philosophical, historical and scientific approaches to the political process. Illustrative problems are selected from the legal, international and comparative fields.

- 207b. *Government and Politics in Western Europe*: Mr. Frye.

A comparative analysis of the contemporary political systems of Germany, Italy, and the Soviet Union.

- [208a. *Introduction to Latin America*: Mrs. Marshall.]

A comparative analysis of political systems of Latin America.

- 209b. *Western Political Philosophy*: Mr. Kline.

A study of the fundamental problems of modern Western political thought, based on an analysis of the writings of the leading theorists.

- 210b. *The Soviet System*: Mr. Hunter (Economics 32 Haverford).

See Interdepartmental Course 210b, page 129.

- [211a. *Latin American Economies and Politics*: Mr. Baratz, Mrs. Marshall.]

Analysis of certain fundamental economic and political problems in Latin America. Open to students who have had at least one year of Political Science (for prerequisites, see page 112) and Economics. Preference given to those with a reading knowledge of Spanish or Portuguese.

- [212a. *Western Political Thought: Ancient and Medieval*.]

- 216b. *African Civilization*: Mr. Glickman (Social Science 38 Haverford).

A study of political ideologies, systems and processes in new states. The impact of the West on traditional societies, the growth and effects of nationalism and the problems of stability and popular government are emphasized.

- 218a. *Urban Politics*: Mr. Ross.

This course is concerned, in a cross-cultural framework, with the factors leading to the rise of cities, an examination of the diverse groups which comprise urban populations, the various forms of political organization found in urban areas, and the political and social problems of the city in contemporary society. Material will be drawn from cities in Africa, Asia and Latin America, as well as the Western European and American experience.

- [219b. *American Constitutional Law*.]

- 221a. *International Law*: Miss Leighton.

An examination of the doctrines and practices of international law. Traditional material is considered in the context of the contemporary political process, with some emphasis on methodological problems.

- 230b. *Political Behavior*: Mr. Ross.

The focus of this course is on the individual in politics. Several different approaches to the study of political behavior will be considered. Among the areas studied will be political socialization, role theory, political personality, public opinion and political behavior, and theories of political change.

- 301a. *Law and Society*: Miss Leighton.

An introduction to the nature of legal obligation and its relation to selected social institutions. Typical legal problems pertaining to the family, property and government are discussed.

- 302b. *Law, Policy and Personality*: Miss Leighton.

Selected topics in the study of the relation between the legal process and personality development and structure. Attention is given, in the light of this perspective, to the policy implications of various legal doctrines pertaining to such subjects as divorce, child-rearing, criminal responsibility. Open to students who have taken: Political Science 219b, 301a, or 313b, or with the permission of the instructor.

- 303a. *Problems in International Politics*: Mr. Kennedy.

A study of developments in international politics since World War II. Emphasis will be given to an analysis of the origins and development of the Cold War, to the role of the new states in world politics, and to the implications of the development and spread of nuclear weapons technology.

- [304b. *West European Integration*: Mr. Frye.]

An analysis of postwar moves toward integration in Western Europe, with special emphasis upon the factors behind integration and upon the impact of integration upon member societies.

- [306b. *The Problem of Power in Contemporary Society*.]

- [307a. *Modern Germany*: Mr. Frye.]

- [308a. *American Political Theory*.]

- 309b. *Selected Topics in Modern Political Thought*: Mr. Frye.

- 310a. *Problems in Comparative Politics*: Mr. Frye.

Analysis of different approaches to the systematic study of politics and their application to selected problems in comparative politics including modernization.

- 312b. *China and Japan: Problems of Modernization*: Mr. Kennedy.

The course focuses on internal responses to the Western impact as revealed in changing attitudes, revised values and new institutions; and on external policies and relations. Special attention to evidences of continuity and change and to comparison of political developments in the two countries.

- [313b. *Problems in Constitutional Law*.]

- [315b. *American Bureaucracy*.]

- 316b. *Urban Affairs*: Mr. Ross.
Selected topics.

COURSES AT HAVERFORD

- 220a. *International Politics and Foreign Policy*: Mr. Mortimer (Political Science 25).
[223a. *The Political Process: Presidency and Congress*: Mr. Waldman (Political Science 21).]
227a. *Political Theory: Context of Public Policy*: Miss Shumer (Political Science 27).
[228b. *Public Opinion in the Political System*: Mr. Waldman (Political Science 22).]
225b. *Comparative Politics: Non-Western*: Mr. Glickman (Political Science 24).
226b. *International Organization*: Mr. Mortimer (Political Science 26).
229b. *Public Policy: Civil Rights and Poverty*: Miss Shumer (Political Science 28).
319a. *The Nature of Contemporary Political Theory*: Miss Shumer, Mr. Bernstein (Political Science 47).

Final Examination: The Final Examination consists of three written examinations, the first of which is a general examination in Political Science and must be taken by all seniors majoring in the Department.

The second and third examinations each cover one of the four specialized fields listed below. At least three courses (one and one-half units of work) must be taken in each of the fields selected.

I. *Political Philosophy and Theory*

Values, Science and Politics

Western Political Thought: Hobbes to the Present

Western Political Thought: Ancient and Medieval

Political Behavior

American Political Theory

Selected Topics in Modern Political Thought

The Problem of Power in Contemporary Society

Political Theory: Context of Public Policy (Haverford)

The Nature of Contemporary Political Theory (Haverford)

2. *Politics and Law in American Society*

American National Politics

Metropolitan Government

Constitutional Law

Problems in Constitutional Law

American Bureaucracy

Law and Society

Law, Policy and Personality

Urban Affairs

The Political Process: Presidency and Congress (Haverford)

Public Opinion in the Political System (Haverford)

Public Policy: Civil Rights and Poverty (Haverford)

3. *Comparative Politics*

Government and Politics in East Asia

Communism and Nationalism in Asia

Government and Politics in Western Europe

Introduction to Latin America

Latin American Economies and Politics

West European Integration

Problems in Comparative Politics

Modern Germany

China and Japan: Problems of Modernization

The Soviet System (Haverford)

African Civilization (Haverford)

Comparative Politics: Non-Western (Haverford)

4. *International Politics and Law*

International Law

Problems in International Politics

International Politics and Foreign Policy (Haverford)

International Organization (Haverford)

(With the consent of the Department, certain comparative courses may be counted in this field.)

Honors Work: Seniors admitted to Honors work prepare an independent research report (one unit of credit) under the supervision of a member of the Department. Weekly conferences are held. Field work is encouraged.

Psychology

Professors: Richard C. Gonzalez, PH.D., *Chairman*

Morton E. Bitterman, PH.D.¹

Rachel Dunaway Cox, PH.D.

Associate Professors: Robert S. Davidon, PH.D.

Matthew Yarczower, PH.D.

Assistant Professor: Earl Thomas, PH.D.

Visiting Lecturers: Alice M. Isen, PH.D.

Robert E. Lana, PH.D.

Larry Stein, PH.D.

Herbert N. Weissman, PH.D.

Lecturer: Erika R. Behrend, M.A.

Assistants: Karen Anne Curto, A.B.

W. Sue Ritter, A.B.

Linda Wexler, M.A.

The Department offers to the major student a choice between two plans of study, one a concentration in Experimental Psychology and the other a concentration in Social Psychology. In Experimental Psychology, the student is concerned with the analysis of individual behavior and its physiological basis under the controlled conditions of the laboratory. Sensory processes, motivation, emotion, learning, and intelligence are treated in evolutionary perspective, and the relation of Psychology to the other natural sciences is emphasized. In Social Psychology, the student is concerned with the influence of society on the development of personality and with the psychological analysis of the behavior of man in society. The relation of Psychology to other social sciences is emphasized.

Requirements in the Major Subject: Psychology 101 and 202a are required of all students majoring in Psychology.

For concentration in Experimental Psychology: Psychology 201a, 201b, 301a, 301b, 302, and one unit of allied course work at the 200 level or above.

¹ On leave, 1968-69.

For concentration in Social Psychology: Psychology 205a, 205b, 305a, and 307a; two courses selected from Psychology 206a, 207b, 306b, 308b, and 309b; and one unit of work in an allied subject *or* in Experimental Psychology.

Allied Subjects: For concentration in Experimental Psychology—Biology, Chemistry, Physics, and Mathematics; for concentration in Social Psychology—Anthropology, Economics, Philosophy, Political Science, and Sociology.

101. *Experimental Psychology:* Mr. Gonzalez, Mr. Thomas, Mr. Yarczower.
The experimental study of behavior and its physiological basis. A survey of methods, facts, and principles: sensation, perception, motivation, emotion, learning, and thinking. Three hours of lecture and four hours of laboratory each week.
- 201a. *Animal Learning:* Mr. Yarczower.
Comparative studies of conditioning and selective learning; theories of learning; the evolution of intelligence. Three hours of lecture and three hours of laboratory each week.
- 201b. *Human Learning:* Mr. Gonzalez.
The experimental study of learning and memory in humans. Three hours of lecture and three hours of laboratory each week.
- 202a. *Experimental Methods and Statistics:* Mr. Davidon.
Measurement, descriptive statistics, probability, association, testing of hypotheses, and the design of experiments. Three hours of lecture and two hours of laboratory each week.
- 205a. *Social Psychology:* Miss Isen.
The psychological study of man in society.
- 205b. *Psychology of the Normal Personality:* Miss Isen.
Survey of the major theories. Developmental, clinical and experimental evidence relating to the "normal" personality.
- 206a. *Child Psychology:* Mrs. Cox.
The development of the child from infancy to maturity. Physical, intellectual, and emotional growth and learning in the family and the school. Three hours of lecture and two hours of laboratory each week.

- 207b. *Psychology of Language*: Mr. D'Andrea (Psychology 22 Haverford).
- 301a. *Central Nervous System and Behavior*: Mr. Thomas.
The physiological and anatomical bases of behavior. Three hours of lecture and three hours of laboratory each week.
- 301b. *Sensory Processes*: Mr. Thomas.
The physiological and anatomical bases of the reception and analysis of stimuli. Psychophysics and modern signal-detection theory. Three hours of lecture and three hours of laboratory each week.
- [302. *Advanced Comparative Psychology*.]
- 305a. *Perception*: Mr. Davidon.
Differentiation and organization of the perceived environment, visual, auditory, and tactual-kinesthetic. Three hours of lecture and three hours of laboratory each week.
- 306b. *Psychological Measurement*: Mr. Davidon.
Trait assessment and prediction; demonstration and evaluation of principal tests; scaling and test development; the structure of human abilities. Three hours of lecture and two hours of laboratory each week.
- 307a. *Communication, Propaganda, and Attitude Change*: Mr. Perloe (Psychology 37 Haverford).
- 308b. *Psychology of the Abnormal Personality*: Mrs. Cox.
Concepts of normality, types of abnormality, methods of investigation and principles of treatment. Three hours of lecture each week. Visits to mental health centers and training school facilities for special lectures and observation.
- 309a. *Human Information Processing*: Mr. Rowe (Psychology 35 Haverford).
- 310a. *Advanced Experimental Psychology*: Members of the Department.
& b. Specialized training in a selected area of investigation. May be taken in either semester or throughout the year. Prerequisite: Permission of the Department.

Senior Conferences: Members of the Department.

Weekly conferences, and, for selected students, seminars on special topics in preparation for the Final Examination.

Final Examination: The Final Examination consists of one general examination in either Experimental Psychology or Social-Personality and two specialized examinations in specific fields of Psychology. With the approval of the Department, an examination in an allied field may be substituted for one of the specialized examinations.

Honors Work: One unit of Honors work may be taken by students nominated by the Department. This unit may be substituted for one of the specialized examinations.

Russian

Professor: Frances de Graaff, PH.D., *Chairman*

Assistant Professors: Irene Nagurski, PH.D.

Ruth L. Pearce, PH.D.

Instructors: Frederick Schulze, M.A.

Helen Segall, B.S.

Professor of Philosophy: George L. Kline, PH.D.

The Russian major is designed to offer the students the opportunity to learn both to read and speak Russian and to achieve an understanding of the literature, thought and culture of both pre-revolutionary and contemporary Russia. Students in all courses are encouraged to make use of the tapes available in the Language Laboratory. In Russian 1, 101, 202, the use of the Laboratory forms an integral part of the course.

Requirements in the Major Subject: Russian 1, 101, 200, 201 and one advanced course. Also Russian 203 or History 43-44 (History of Russia). If a student offers Russian for entrance, Russian 203 or History 43-44 may be substituted.

Allied Subjects: History 204b, 43-44 (strongly recommended), 301; Political Science 201a, 210; any language or literature, History of Art, Music, Philosophy.

001. *Elementary Russian:* Miss de Graaff, Mrs. Pearce.

The basic grammar is learnt and enough vocabulary to enable the student to speak and understand simple Russian and to read simple texts.

101. *Intermediate Russian:* Mrs. Pearce, Miss Nagurski.

Grammar review and composition. Introduction to the Russian literary language. Plays, novels, and some contemporary political material are read.

200. *Advanced Training in the Russian Language:* Mrs. Segall.

201. *Readings in Russian Literature:* Miss Nagurski.

Representative writers of the nineteenth and twentieth centuries. Conducted mostly in Russian.

[202.* *General Readings in Russian.*]

Primarily intended for students who want a good reading knowledge of the language, but are not majoring in Russian. The reading texts cover a wide variety of subject matter, such as history, economics, politics, science, as well as literature. Some lectures in Russian about the cultural background of Russia are included, with oral reports and discussion of specific topics in Russian. Prerequisite: two years of Russian language.

[203.* *Russian Literature in Translation*: Miss Nagurski.]

The leading Russian writers of the nineteenth century in translation. Students registering for the course should read in the preceding summer the following novels: Dostoevsky's *Crime and Punishment*, Tolstoi's *War and Peace* and two of Turgenev's novels.

An advanced course, given in Russian, is selected each year from the following:

[301. *Russian Poetry of the Nineteenth Century*: Miss de Graaff.]

302. *Pushkin and His Time*: Miss de Graaff.

[303. *Russian Literature of the Twentieth Century*: Miss de Graaff.]

[304. *Social Trends in Nineteenth-Century Russian Literature*:
Miss de Graaff.]

Final Examination: The Final Examination for students majoring in Russian consists of three parts:

1. The Russian language: ability to speak and understand the spoken idiom; ability to translate from the Russian.
2. A period of Russian literature.
3. A single topic of Russian literature or an allied subject. The Department is especially interested in allied subjects in the social sciences.

Honors Work: Honors work is offered to students recommended by the Department.

Sociology

Professor: Eugene V. Schneider, PH.D., *Chairman*

Assistant Professor: Judith R. Porter, PH.D.

Visiting Lecturer: Paul Hare, PH.D.

Professor of Social Work and Social Research: Bernard Ross, PH.D.

The aim of the major in Sociology is to provide the student with a general understanding of the structure and functioning of modern society, its major institutions, groups, values, and of the interrelations of these with personality. Attention is also paid to the major stresses and strains of modern society, and the resultant social problems. Free elective work is offered to those who may be interested in applying their knowledge to the field of social work.

The work of this program is closely integrated with the work in Sociology offered at Haverford College. The student will note that one course is required at Haverford, and that other courses are open for the major work.

Requirements for the Major Subject: 102a & b, 31 (Haverford), 302a, and one additional unit and a half of work to be chosen from courses offered at Bryn Mawr or courses above the introductory level at Haverford.

Allied Subjects: Anthropology, Economics, Psychology, Political Science, Philosophy, History, and Mathematics.

102a. *Introduction to Sociology:* Mrs. Porter.

An analysis of the basic sociological perspectives, methods and concepts used in studying society. Emphasis will be placed on culture, social system and personality and their interrelationships. Concrete applications of sociological analysis will be examined.

102b. *American Social Structure:* Mr. Schneider.

Analysis of the structure and dynamics of complex, industrial societies. Examples will be drawn from several societies, but major emphasis is on the United States.

[202a.* *History and Philosophy of Social Welfare:* Mr. Ross.]

[205b. *Social Stratification*: Mr. Schneider.]

Examination of theoretical and methodological problems in the field of stratification, with special reference to the relationship of class structure to the culture and to personality systems.

207a. *Race Relations*: Mrs. Porter.

An examination of theories of prejudice and attitude change. The structure of the minority community and its relationship to the majority group will be discussed, with major emphasis placed on Negro-white relations in the United States. Prerequisite: Sociology 102a or consent of instructor.

208b. *Personality and Social Structure*: Mr. Schneider.

An analysis of the relationships between personality, both deviant and non-deviant, and major elements of the social structure and culture. Several theories linking personality, social structure and culture will be considered.

[209b. *Sociology of Religion*: Mrs. Porter.]

Analysis of the interrelationship between religion and society, drawing upon the works of major social theorists. Emphasis will be placed on the connection between religious systems and secular culture and social structure, including the role of religion in social change, secular values, and personality systems. Prerequisite: Sociology 102a or consent of instructor.

212b. *Sociology of Poverty*: Mrs. Porter.

An analysis of the causes and effects of poverty in the United States. Issues covered will include the culture of poverty, the effects of poverty on institutions like the family, and the government poverty program. Prerequisite: Sociology 102a.

302a. *Social Theory*: Mr. Schneider.

Analysis of the theoretical work of several classical and modern thinkers. Among the writers to be examined are Marx, Weber, Durkheim, Freud, Pareto, Marcuse, Parsons.

Honors Work: Honors work is offered to selected students and will consist of independent reading and research, conferences and the preparation of a written report.

COURSES AT HAVERFORD

The following is a selection of the courses offered at Haverford. Majors in Sociology who wish to enroll in courses other than those listed here should consult with the Department of Sociology at Bryn Mawr.

23. *Social Disorganization and Deviant Behavior*: Mr. Batson.
25. *Sociology of Conflict*: Mr. Wohr.
27. *African Social Stratification*: Mr. Batson.
31. *Social Research and Analysis*: Instructor to be announced.
39. *Social Change in Developing Areas*: Mr. Hare.
41. *Anthropology of Religion*: Mr. McGaffey.
43. *Sociology of Small Groups*: Instructor to be announced.

Final Examination: The Final Examination for students majoring in Sociology is in two parts:

1. General Sociology.
2. A special field in Sociology, such as Social Theory, Race Relations, Sociology of Religion, Industrial Sociology, Social Disorganization. An allied field may be substituted for one of these.

Spanish

Professor: Joaquín González Muela, *D. en F.L.*

Associate Professor: Willard Fahrenkamp King, PH.D., *Chairman*

Assistant Professors: Eleanor Krane Paucker, PH.D.

Phyllis Turnbull, *D. en F.L.*

Dean of the College: Dorothy Nepper Marshall, PH.D.¹

Professor of Philosophy: José María Ferrater Mora, *Lic. F.L.*

The major in Spanish includes work in both literature and language. It includes a two-year survey of Spanish literature, followed by more specialized advanced courses dealing with the literature of special peri-

¹ On leave, semester I, 1968-69.

ods, or with various literary forms. One course is devoted to training in written and spoken Spanish. Students are encouraged to supplement their course work by spending the Junior year in Spain or studying in the summer at the *Centro* in Madrid, or by living in the Spanish House. It is strongly advised that all students make use of the tapes available in the Language Laboratory. In Spanish 1 and 3 the use of the Laboratory forms an integral part of the course.

Requirements in the Major Subject: Spanish 101, 102, 202, and at least two advanced courses. Students who spend the Junior year in Spain may substitute an advanced literature course for Spanish 202.

Allied Subjects: Any other language or literature, Economics, History, History of Art, Music, Philosophy, Political Science, and Sociology and Anthropology.

001. *Elementary Spanish:* Mrs. Paucker, Miss Turnbull.

Grammar, composition, readings on the Spanish and Spanish-American background.

003. *Intermediate Spanish:* Miss Turnbull.

Intensive grammar reviews, exercises in composition and conversation, selected readings from modern Spanish texts.

101. *Masterpieces of Spanish Literature (from 1700 to 1936):* Mrs. King.

A panoramic view of the development of Spanish literature during the eighteenth, nineteenth and twentieth centuries, emphasizing representative works of each period or literary school: Neoclassicism, Romanticism, Realism, etc.

- [102. *Masterpieces of Spanish Literature (from the Poema del Cid to 1700):* Mrs. King.]

A survey of Medieval, Renaissance and Baroque literature, emphasizing the development of the various genres. Special attention is given to the Spanish Golden Age.

202. *Spanish Readings and Composition:* Mr. González Muela.

Designed to aid the student in interpretation of texts, appreciation of stylistic differences, translation and original composition in Spanish. Assignments are adapted to the needs and level of achievement of the individual student.

- 203a. *Spanish American Literature—The Political and Social Revolution*: Mrs. Paucker.

The development of the national ideal in the prose writers from Sarmiento to the present.

- 203b. *Spanish American Literature—The Literary Revolution*: Mr. González Muela.

Poetry and prose from the *Modernista* movement to the present.

- [302a. *Medieval Spanish Literature*: Miss Turnbull.]

- [303a. *The Modern Novel in Spain*: Mrs. King.]

The development of the Spanish narrative from the Generation of 1898 to the present.

- [303b. *Modern Spanish Poetry*: Mr. González Muela.]

Spanish poetry from *Modernismo* to the present.

- 304a. *Drama of the Golden Age*: Mrs. King.

Representative works of Cervantes, Lope de Vega, Tirso de Molina, Calderon and other outstanding dramatists.

- 304b. *The Age of Cervantes*: Mrs. King.

The development of Cervantes' art in the drama, the short story, and the novel, with special attention to *Don Quixote*.

- [305. *Prose Fiction of the Renaissance*.]

From *La Celestina* to *Don Quixote*.

Final Examination: The Final Examination is in three parts:

1. An oral examination in Spanish consisting of the explanation and interpretation of a Spanish text.
2. A three-hour written examination on a period of Spanish literature.
3. A three-hour written examination on the development of a literary genre through Spanish literature.

An examination in an allied subject may be substituted for one of the two written examinations.

Honors Work: Honors work is offered to students recommended by the Department. This work consists of independent reading, conferences and a long paper.

Interdepartmental Courses

The following courses are given by two or more departments in cooperation. The object is to cut across well-defined areas of knowledge and to show the relationships existing among them. Also listed are courses in a single discipline, such as Linguistics, which are of special importance to several departments.

- 210b. *The Soviet System*: Mr. Hunter (Economics 32 Haverford).

An analysis of the structure and functioning of major Soviet economic, political and social institutions. Current arrangements are studied as products of historical development. Present performance and prospects are evaluated. Prerequisites: Economics 101 or a unit of second-year work in Political Science; or History 101. (This course is also listed as Political Science 210b.)

- 214a. *History of Science*: Mr. Culotta.

- & b. Historical changes in the concept "science" are examined. Emphasis is placed on the history of man's ideas about himself and the universe. The first semester covers the development of science from antiquity to the seventeenth century. The second semester continues into the twentieth century by developing select topics and their philosophical and social impact.

- 220c. *Introduction to Automatic Computation*: Mr. Snyder and members of several Departments.

Lectures will present basic mathematical material and the fundamentals of numerical analysis. Emphasis will be more on over-all viewpoints than on particular techniques. The laboratory will consist of computer programming with problems drawn as far as possible from the student's major field. Two lectures, two hours laboratory per week. Prerequisite: Mathematics 101 or the equivalent.

- [305a. *Latin American Economies and Politics*: Mr. Baratz, Mrs. Marshall.]

Analysis of certain fundamental economic and political problems in Latin America. Open to students who have had at least one year of Political Science or Economics. Preference is given to those with a reading knowledge of Spanish or Portuguese. (This course is also listed as Economics 211a.)

308. *Introduction to Linguistics*: Miss Dorian.

Introduction to the study of language: the interaction of language and culture; methods of tracing the history of languages and their interrelationships. (In 1969-70 the course will deal with methods of linguistic analysis to the structure of languages.)

Physical Education

Director: Irene A. Clayton, M.S.¹

Instructors: Sandra D. Brugger, B.S.

Jan Eklund Fisher, M.ED.

Ann Carter Mason, B.S.

Mary L. O'Toole, B.S.

Janet A. Yeager

The Department of Physical Education has developed a program to:

1. Recognize the student with a high degree of neuromuscular coordination and physical stamina, and encourage her to maintain this status.
2. Provide incentive for students of lower levels of neuromuscular coordination and physical stamina to improve to a higher more recognized standard.

Through a combination of tests, some already used for several years, a student's physical education profile score (P.E.P.) can be determined. On the basis of this profile score the student will be advised to what extent she has satisfied the freshman (or sophomore) requirement. She may have no required activity her freshman year or she may have to fulfill the usual first-year requirement. A student may request a re-test at the end of semester I. All students will be required to take the sophomore year in Physical Education unless a re-test is requested and passed in the Fall of that year.

Students of high-level profile scores are free to elect any activity offered by the Department, including those specialized units in Dance Orientation, Sports Orientation and Relaxation. Should a student in this level profile score not participate in activity, there are factors which will be sacrificed: regular activity, opportunity for social exchange, recreation, relaxation and the possible lowering of the profile score.

Students not in the high-level group will be advised of areas in which they need assistance, will be free to elect sports activities, and the choice of two of a three-unit course in movement education will be a required part of the program.

¹ On leave, semester I, 1968-69.

Areas contributing to a physical education profile to be determined by testing, using batteries of standardized tests and procedures, adapted to college women:

1. Swim test (for survival)
2. Aptitude and Achievement Battery (performance skill)
 - a. Standing broad jump
 - b. Sand bag throw
 - c. Obstacle course
3. Fitness Battery (strength and endurance)
 - a. Standing broad jump
 - b. Sit-ups
 - c. Push-ups
 - d. Step-ups
4. Body weight control

All students must complete the freshman and sophomore requirements satisfactorily, and must pass the swimming test administered at the beginning of the year to every new student unless excused by the College Physician. Students unable to pass this test are expected to register for beginning swimming. All classes are open to election by upperclassmen. Transfer students will have their physical education requirement reviewed by the Director of the Department.

Seasonal offerings

Fall: archery, fencing, golf, hockey, modern dance, movement education, riding,* swimming, tennis, volleyball, and American Red Cross Senior Life Saving Course. *Winter:* badminton, basketball, diving, exercise, fencing, folk dance, modern dance, movement education, riding,* skating,* swimming, volleyball, and American Red Cross Water Safety Instructor Training Course. *Spring:* archery, golf, lacrosse, riding,* soccer, swimming, tennis and volleyball.

Swimming Test: Jump into deep end of pool (feet first entry), tread water one minute without use of hands, back float motionless two minutes, demonstrate two strokes while swimming lengths of pool for 10 minutes without stopping, resting, or touching bottom or sides of pool.

* Open only to Sophomores with permission of the Department, and released Freshmen.

Financial Aid

The scholarships listed on the following pages have been made available to able and deserving students through the generosity of alumnae and friends of the College. Many of them represent the income on endowed funds which in some cases is supplemented by an additional grant, usually taken from expendable gifts from alumnae and parents. A student may apply for aid in a specific amount, but not from a particular fund.

The awards made from some scholarship endowments are reported in specific amounts. In the case of other awards for which the specific amount is not reported, the stipend is set according to the needs of the student.

Three outstanding scholarship programs have been established by the National Merit Scholarship Corporation, the General Motors Corporation and the Procter and Gamble Fund. Awards for the General Motors Scholarship and the Procter and Gamble Scholarship are made by Bryn Mawr College. The Ford Company has a scholarship program for the children of its employees as do other large corporations. In addition to the generous awards made by these companies there are many others made by foundations and by industrial and professional groups. Some of these are regional in designation. Students are urged to consult their schools and community agencies for information in regard to such opportunities.

Financial aid is held each year by thirty-five per cent of the undergraduate students. The value of the scholarships ranges widely, but the average grant is approximately \$1350. Requests for financial aid are reviewed by the Scholarship Committee and judged on the basis of the student's academic promise and achievement on the one hand, and, on the other, her financial situation and that of her family. Bryn Mawr College participates in the College Scholarship Service of the College Entrance Examination Board. Participants in the Service subscribe to the principle that the amount of aid granted a student should be based upon financial need. The Service assists colleges and other agencies in determining the student's need for financial assistance. All applicants must submit in support of application for financial aid the form entitled Parents' Confidential Statement which is prepared by

the Service. When the total amount of aid needed has been determined, awards are made in the forms of loans and scholarships. All students who are granted a scholarship in the award of the College or the alumnae clubs will be required to borrow the first \$200 of their total financial aid from one of the loan funds (see page 156). Students receiving assistance generally plan to earn money by part-time work during the college year and by summer positions. Employment opportunities are described on page 155.

Scholarships are available to entering students, to students who have completed one or more years of study in the College and to students transferring from two-year institutions. Students entering on transfer from four-year colleges in the United States are eligible for scholarships only after the completion of one year of study at Bryn Mawr.

Applications for Financial Aid Available at Entrance

Application forms for Financial Aid for the freshman year may be obtained from the Director of Admissions, Taylor Hall, Bryn Mawr College, Bryn Mawr, Pennsylvania. Each candidate for aid must also file with the College Scholarship Service, Box 176, Princeton, New Jersey, a form entitled Parents' Confidential Statement in Support of Application for Financial Aid. These two forms must be filed with the College and with the College Scholarship Service *no later than January 1* of the student's final year in high school in the case of regular applicants, and *no later than October 1* in the case of applicants under the Early Decision Plan.

The fact that a student has applied for financial assistance is not taken into consideration in evaluating the candidate's application for admission to the College.

Since scholarship funds of the College are not sufficient to cover the needs of the many well-qualified applicants, students are urged to consult with their school counselors about national and local scholarships which may be available.

Undergraduate Scholarships

The renewal like the award of the scholarships depends on the student's maintaining a good record. Application for the renewal of scholarships must be made annually. The necessary forms may be obtained in the Office of the Dean. Completed applications must be re-

turned to the Scholarship Office of the College by January 8. A new financial statement completed by the applicant's family is required each year. Letters of support are requested from members of the faculty familiar with the student's academic work.

Scholarship Funds

Alumnae Regional Scholarships are available to students in all parts of the United States and Canada. These scholarships, raised by alumnae, vary in amount but may cover full tuition for four years. The awards are made by local alumnae committees and are announced to the candidates immediately after their notification of admission to the College. Holders of these scholarships who maintain a high standard of academic work and conduct, and who continue to need financial aid after the freshman year, are assured assistance either from alumnae committees in their districts or from the College. (1922)

The Alumnae Bequest Scholarship Fund, now totaling \$2,551, was established by bequests received for scholarships from alumnae of the College. (1965)

The Marion Louise Ament Scholarship Fund was established by bequest of Berkley Neustadt in honor of his daughter, Marion Louise Ament of the Class of 1944. The income is to be used for scholarships. (1967)

The Evangeline Walker Andrews May Day Scholarship was established by bequest of Evangeline Walker Andrews of the Class of 1893. The income from this fund of \$10,000 is to be used for undergraduate scholarships in the Department of English. Mrs. Andrews originated the Bryn Mawr May Day which was first held in 1900. (1963)

The Mabel Pierce Ashley Scholarship Fund was founded by bequest of Mabel Pierce Ashley of the Class of 1910. The income from the fund of \$25,000 is to be awarded as a scholarship or scholarships to undergraduate students majoring in History or English. (1963)

Note: *The dates in parentheses in the listings on this and the following pages indicate the year the scholarship was established.*

The Elizabeth Congdon Barron Scholarship Fund. In 1960, by Mrs. Barron's bequest of \$2,500, the Elizabeth Congdon Barron Fund was established "for the general purposes of the College." Through gifts from her husband, Alexander J. Barron, the fund was increased to \$25,000 and the Elizabeth Congdon Barron Scholarship Fund was established. Through further gifts from Mr. Barron, the endowment has been raised to \$50,000. (1964)

The Elizabeth P. Bigelow Memorial Scholarship Fund was established by gifts now amounting to \$50,209 from Mrs. Henry B. Bigelow in memory of her daughter Elizabeth P. Bigelow, who was graduated *cum laude* in 1930. (1960)

The Book Shop Scholarships are awarded annually from the profits of the Bryn Mawr College Book Shop and from the income from the Book Shop Fund, which now amounts to \$30,855. (1947)

The Mariam Coffin Canaday Scholarship Fund was established by a gift of \$18,866 from the Ward M. and Mariam C. Canaday Educational and Charitable Trust. The income from this fund is to be capitalized until the fund reaches the amount of \$25,000. Scholarships are then to be awarded from the income, with preference given to students from metropolitan Toledo, Ohio. (1962)

The Antoinette Cannon Memorial Scholarship Fund was established by a gift of \$30,400 by Janet Thornton of the Class of 1905 in memory of her friend Antoinette Cannon of the Class of 1907. (1963)

The Jeannette Peabody Cannon Memorial Scholarship Fund, now totalling \$13,441, was established in memory of Jeannette Peabody Cannon, Class of 1919, through the efforts of the New England Alumnae Regional Scholarship Committee, of which she was a member for twenty years. The scholarship is awarded every three years on the nomination of the Alumnae Scholarship Committee to a promising member of the freshman class, residing in New England, who needs financial assistance. The scholarship may be held during the remaining three years of her college course provided a high standard is maintained. In 1962, the fund was increased from \$7,405 to \$13,441 by a generous gift from Mrs. Donald Wing of New Haven. (1949)

The Susan Shober Carey Award was founded in memory of Susan Shober Carey by gifts now totalling \$3,300 from the Class of 1925 and is awarded annually by the President. (1931)

The Florence and Dorothy Child Memorial Scholarship of Bryn Mawr College was founded by bequest of Florence C. Child of the Class of 1905. The income from this fund of \$115,494 is to be used for the residence fees of one or more students who without such assistance would be unable to live in the halls. Preference is to be given to graduates of the Agnes Irwin School and to members of the Society of Friends. If no suitable applicants are available in these two groups, the scholarship aid will then be assigned by the College to students who could not live in residence without such assistance and who are not holding other scholarships. (1957)

The Jacob Orie and Elizabeth S. M. Clarke Memorial Scholarship was established by bequest of \$5,000 from the estate of Elizabeth Clarke and is awarded annually to a student born in the United States or any of its territories. (1948)

The Class of 1903 Scholarship Fund was established by gift of \$12,295 on the occasion of the fiftieth reunion of the Class. The income from this fund is to be awarded annually to a member of the freshman, sophomore or junior class for use in the sophomore, junior or senior years. (1953)

The 1967 College Bowl Scholarship Fund of \$16,000 was established by the Bryn Mawr College team from its winnings on the General Electric College Bowl Television Program. The scholarship grants were donated by the General Electric Company and by Seventeen Magazine and supplemented by gifts from the Directors of the College. The members of the team were Ashley Doherty (1971), Ruth Gais (1968), Robin Johnson (1969) and Diane Ostheim (1969). Income from this fund will be awarded to an entering freshman in need of assistance. (1967)

The Julia Cope Collins Scholarship was established by bequest of \$10,000 from the estate of Julia Cope Collins, Class of 1889. (1959)

The Alice Perkins Corville Scholarship Fund, now totalling \$76,587, was established by Agnes Frances Perkins of the Class of 1898 in

honor of her sister, Alice Perkins Coville. The income from this scholarship fund is used to aid a deserving student in need of financial assistance. (1948)

The Regina Katharine Crandall Scholarship was established by a group of her students as a tribute to Regina Katharine Crandall, Margaret Kingsland Haskell Professor of English Composition from 1918 to 1933. The income from this fund, which now amounts to \$10,225, is awarded on the recommendation of a committee composed of the Dean of the College, a representative of the English Department, and a representative of another department chosen by the Dean, to a sophomore, junior or senior who in her written English has shown ability and promise and who needs assistance to continue her college work. (1950)

The Annie Lawrie Fabens Crozier Scholarship Fund was established by a gift of \$31,656 from Mr. and Mrs. Abbott P. Usher in memory of Mrs. Usher's daughter, Annie Lawrie Fabens Crozier of the Class of 1951. The scholarship, in varying amounts up to full tuition, is to be awarded to a junior or senior of distinction who is majoring in English. (1960)

The Rebecca Taylor Mattson Darlington Memorial Scholarship Fund was established by members of her family in memory of Rebecca Taylor Mattson Darlington, Class of 1896. The income is to be used for undergraduate scholarships. (1967)

The Elsie Funkhouser Delafield Scholarship Fund was established by a bequest from Mrs. Delafield and supplemented by gifts from her family and friends. The income is to be used for undergraduate scholarships. (1967)

The E. Merrick Dodd and Winifred H. Dodd Scholarship Fund of \$2,000 was established by bequest of Dr. and Mrs. Dodd. (1953)

The Abby Slade Brayton Durfee Scholarship Fund, which now amounts to \$11,000 was founded in honor of his wife by bequest of Randall Nelson Durfee and increased by Mrs. Durfee and by Randall N. Durfee, Jr. and Mrs. Charles Bennett Brown of the Class of 1930. Preference is given to candidates of English or American descent and to descendants of the Class of 1894. (1924)

The Anne Long Flanagan Scholarship was established by a gift of \$29,687 from Anne Long Flanagan of the Class of 1906 on the occasion of the 55th reunion of the class. The income is to be used to provide scholarships for Protestant students. (1961)

The Cora B. Fohs and F. Julius Fohs Perpetual Scholarship Fund was established by a gift of \$75,000 from the Fohs Foundation. The income only is to be used. (1965)

The Foundation Scholarships, varying in amount up to full tuition and tenable for four years, are made available by the Trustees of Bryn Mawr College. They are awarded to members of the Society of Friends who cannot meet the full expenses of tuition and residence. (1894)

The William Franklin Scholarship Fund was established by a bequest of \$35,985 from Susan B. Franklin of the Class of 1889. The income from this fund is to be used for scholarships for deserving girls, preference being given whenever possible to girls from the Rogers High School, Newport, Rhode Island. (1957)

The Edgar M. Funkhouser Memorial Scholarship Fund of \$30,000 was established from his estate by Anne Funkhouser Francis of the Class of 1933. Awards may vary in amount up to full tuition and be tenable for four years. Income from this fund may be awarded annually, first preference being given to residents of southwest Virginia; thereafter to students from District V eligible for aid in any undergraduate year. (1964)

The Helen Hartman Gemmill Scholarship, value \$500, given for the year 1968-69, is awarded to a student majoring in English from funds provided by the Warwick Foundation. (1967)

The General Motors Scholarship "makes it possible for students of ability but limited resources to complete their education and thus realize their potentialities to the fullest." In addition, the corporation makes available to private colleges unrestricted grants-in-aid toward that part of the costs of education not covered by the student's tuition. The award, tenable for four years, may be as high as \$2,000 a year, depending upon demonstrated need. The award is made "on the basis of secondary school records and reports, as well as extra-curricular activities and leadership characteristics." The selection is made by Bryn Mawr College. (1963)

The Anna Hallowell Memorial Scholarship was founded in memory of Anna Hallowell by her family. The income on a fund of \$2,585 is awarded annually to the junior in need of aid who has the highest academic record. (1912)

The Katharine Hepburn Scholarship, value \$1,000, given for the year 1968-69, is awarded in honor of Katharine Hepburn to a student interested in the study of drama and motion picture, and in the cultivation of English diction and of literary appreciation. (1952)

The Katharine Houghton Hepburn Memorial Scholarship was given in memory of Katharine Houghton Hepburn of the Class of 1900. The income on this fund, now totalling \$8,134, is awarded for the junior or senior year to a student who has demonstrated both ability in her chosen field and independence of mind and spirit. (1957)

The Jeanne Crawford Hislop Memorial Scholarship Fund of \$5,000 was given in memory of Jeanne Crawford Hislop of the Class of 1940 by Mr. and Mrs. John H. Hislop and Mrs. Frederic W. Crawford. The income from this fund has been supplemented by gifts from Mrs. John H. Hislop. This scholarship, awarded to a junior, may be renewed for the senior year. (1939)

The George Bates Hopkins Memorial Scholarships were founded by a gift of \$10,056 from Mrs. Elizabeth Hopkins Johnson in memory of her father. Preference is given to students of Music and, in default of these, to students majoring in History, and thereafter to students in other departments. (1921)

The Maria Hopper Scholarships, two in number, were founded by bequest under the will of Maria Hopper of Philadelphia and are awarded annually. The income from this fund of \$10,224 is used for aid to a sophomore. (1901)

The Leila Houghteling Memorial Scholarship Fund in the amount of \$10,180 was founded in memory of Leila Houghteling of the Class of 1911 by members of her family and a group of her contemporaries. It is awarded every three years on the nomination of the Alumnae Scholarships and Loan Fund Committee to a member of the freshman class in need of financial assistance and is held during the remaining three years of her college course. (1929)

Huguenot Society of America Grant. On the recommendation of the College a student of Huguenot ancestry may be nominated for a grant up to \$1,000 to be used for college expenses. (1962)

The Evelyn Hunt Scholarships, two in number, were founded in memory of Evelyn Hunt by bequest of \$10,000 under the will of Evelyn Ramsey Hunt of the Class of 1898. (1931)

The Lillia Babbitt Hyde Scholarship Fund was established by gifts of \$25,600 from the Lillia Babbitt Hyde Foundation to establish the Lillia Babbitt Hyde Scholarship for students whose major subject will lead to a medical education or a scientific education in chemistry, as far as possible. (1963)

The Jane Lilley Ireson Scholarship was established by a bequest of \$246,776 under the will of Jennie E. Ireson, her daughter. The income on each \$5,000 of this fund is to be awarded as a scholarship to a worthy student who may require financial assistance. (1959)

The Alice Day Jackson Scholarship Fund of \$10,195 was given by the late Percy Jackson in memory of his wife, Alice Day Jackson. The income from this fund is awarded annually to an entering student. (1930)

The Alice Lovell Kellogg Fund was founded by a bequest of \$5,000 by Alice Lovell Kellogg of the Class of 1903. The income is to be used for undergraduate scholarships. (1967)

The Minnie Murdoch Kendrick Memorial Scholarship, tenable for four years, was founded by bequest under the will of George W. Kendrick, Jr., in memory of his wife. The income on this fund of \$5,362 is awarded every four years to a candidate nominated by the Alumnae Association of the Philadelphia High School for Girls. (1916)

The Misses Kirk Scholarship Fund, now amounting to \$1,401, was founded in honor of the Misses Kirk by the Alumnae Association of the Kirk School in Bryn Mawr. (1929)

The Elizabeth B. Kirkbride Scholarship Fund was established by a gift of \$1,150 from Elizabeth B. Kirkbride of the Class of 1896. The income is to be used for undergraduate scholarships. (1964)

The Clara Bertram Little Memorial Scholarship was founded by Eleanor Little Aldrich, in memory of her mother. The income from a fund now totalling \$11,000 is awarded to an entering student from New England selected by the President on the basis of merit and financial need. (1947)

The Mary Anna Longstreth Memorial Scholarship, established by a gift of \$5,000 and carrying free tuition, was given in memory of Mary Anna Longstreth by alumnae and children of alumnae of the Mary Anna Longstreth School and by a few of her friends. (1913)

The Lorenz-Showers Scholarship Fund now amounting to \$5,000 was established by Justina Lorenz Showers of Dayton, Ohio, of the Class of 1907, in honor of her parents, Edmund S. Lorenz and Florence K. Lorenz, and of her husband, John Balmer Showers. (1943)

The Alice Low Lowry Memorial Scholarship Fund was established in memory of Alice Low Lowry of the Class of 1938 by members of her family and friends. The income is to be used for scholarships. (1968)

The Gertrude Howard McCormick Scholarship Fund was established by gift of \$25,000 by the late Gertrude Howard McCormick. The scholarship, value \$1,000, is awarded to a student of excellent standing, preferably for her freshman year. If she maintains excellent work in college, she may continue to receive scholarship aid through her sophomore, junior and senior years. (1950)

The Constance Lewis and Martha Rockwell Moorhouse 1904 Memorial Scholarship Fund, now amounting to \$17,930, was established by the Class of 1904 in memory of Constance Lewis and Martha Rockwell Moorhouse of the Class of 1904. (1920)

The Evelyn Flower Morris Cope and Jacqueline Pascal Morris Evans Scholarship Fund, amounting to \$12,800, was established by members of their families in memory of Evelyn Flower Morris of the Class of 1903 and Jacqueline Pascal Morris of the Class of 1908. (1959)

The Jean Brunn Mungall 1944 Memorial Fund, now amounting to \$8,468, was established by the Class of 1944. The income is to be used for scholarships. (1955)

The Mary McLean and Ellen A. Murter Memorial Fund, now amounting to \$14,320, was founded in memory of her two aunts by bequest of Mary E. Stevens of Germantown, Philadelphia. By vote of the Board of Directors the income is used for an annual scholarship. (1933)

The Frank L. Neall and Mina W. Neall Scholarship Fund was established by a legacy of \$25,000 from the Estate of Adelaide W. Neall of the Class of 1906 in memory of her parents. The income is to be used for scholarship purposes at the discretion of the Trustees of the College. (1957)

The New Hampshire Scholarship Fund of \$15,000 was established in 1965 by the Spaulding-Potter Charitable Trust. A matching fund was raised by contributions from New Hampshire alumnae. Income from the two funds will be awarded each year to an undergraduate from New Hampshire on the recommendation of the New England Regional Scholarship Committee. (1965)

The Alice F. Newkirk Scholarship Fund was founded by a bequest of \$2,500 by Alice F. Newkirk. The income is to be used for scholarships. (1965)

The Mary Frances Nunns Scholarship was established by a bequest of \$25,275 under the will of Mary Frances Nunns. The income only is to be used. (1960)

The Florence Morse Palmer Scholarship was founded in memory of Florence Morse Palmer by her daughter, Jean T. Palmer of the Class of 1924, by gifts now totalling \$10,000. (1954)

The Margaret Tyler Paul Scholarship was established by a 40th Reunion gift of \$30,000 from the Class of 1922. (1963)

The Fanny R. S. Peabody Scholarship Fund was established by bequest of \$177,927 in the will of Fanny R. S. Peabody. The income from the Peabody Fund is awarded to students from the western states. (1943)

The Delia Avery Perkins Scholarship was established by bequest of \$58,474 from Delia Avery Perkins of the Class of 1900. Mrs. Perkins was Chairman of the New Jersey Scholarship Committee for a number of years. The income on this fund is to be awarded to students entering from Northern New Jersey. (1965)

The Ethel C. Pfaff Scholarship Fund was established by a bequest from Ethel C. Pfaff of the Class of 1904. The income from this fund is to be awarded to entering freshmen. (1967)

The Philadelphia Board of Public Education Scholarships, tenable for four years, are awarded to graduates of Philadelphia high schools nominated by the Board of Public Education of Philadelphia. (1898)

The Louise Hyman Pollak Scholarship was founded by the Board of Trustees from a bequest of \$5,061 by Louise Hyman Pollak of the Class of 1908. The income from this fund now totalling \$6,681, which has been supplemented by gifts from the late Julian A. Pollak, and his son, David Pollak, is awarded annually to an entering student from one of the central states, east of the Mississippi River. Preference is given to residents of Cincinnati. (1932)

The Anna M. Powers Memorial Scholarship was founded in memory of Anna M. Powers by a gift from her daughter, Mrs. J. Campbell Harris. The income on this fund of \$5,542 is awarded annually to a senior. (1902)

The Thomas H. Powers Memorial Scholarship was founded in memory of Thomas H. Powers by bequest under the will of his daughter, Mrs. J. Campbell Harris. The income on this fund of \$4,598 is awarded annually to a senior. (1902)

The Anna and Ethel Powers Memorial Scholarship was established by a gift of \$1,000 in memory of Anna Powers of the Class of 1890 by her sister, Mrs. Charles Merrill Hough. The fund is now re-established at \$11,308 in memory of both Anne Powers and her sister, Mrs. Hough (Ethel Powers), by Mrs. E. Baldwin Smith (Nancy Hough). (1919)

The Procter and Gamble Scholarship provides an amount up to full tuition and fees, and an allowance for books. The scholarship may be renewed annually throughout the four years on the basis of successful undergraduate performance and continuing financial need. This scholarship program was established by the Procter and Gamble Fund "in recognition of the responsibility assumed by private women's colleges in graduating capable, well-informed women." The award is made by Bryn Mawr College. (1955)

The James E. Rhoads Memorial Junior Scholarship was founded in memory of the first President of the College, Dr. James E. Rhoads, by the Alumnae Association of Bryn Mawr College. In 1958 and 1959, the Alumnae Association increased the fund to \$27,010, the income from which is awarded annually to a student who has attended Bryn Mawr College for at least three semesters, has done excellent work and expresses her intention of fulfilling the requirements for the degree of Bachelor of Arts at Bryn Mawr College. (1898)

The James E. Rhoads Memorial Sophomore Scholarship was founded in memory of the first President of the College, Dr. James E. Rhoads, by the Alumnae Association of Bryn Mawr College. In 1958 and 1959, the Alumnae Association increased the fund to \$27,010, the income which is awarded annually to a student who has attended Bryn Mawr College for at least one semester, has done excellent work and expresses her intention of fulfilling the requirements for the degree of Bachelor of Arts at Bryn Mawr College. (1898)

The Amelia Richards Scholarship was founded in memory of Amelia Richards of the Class of 1918 by bequest of \$11,033 under the will of her mother, Mrs. Frank P. Wilson. It is awarded annually by the Trustees on the nomination of the President. (1921)

The Maximilian and Reba E. Richter Scholarship Fund was established by a bequest of \$50,000 in the will of Max Richter, father of Helen Richter Elser of the Class of 1913. The income from this fund is to be used to provide assistance for one or more students in the obtaining of either an academic or professional degree. The fund shall be administered on a non-sectarian basis to such applicants as are deemed worthy by habits of character and scholarship. No promises of repayment shall be exacted but it is hoped that students so benefited will desire when possible to contribute to the fund in order that similar aid may be extended to others. Such students shall be selected from among the graduates of public high schools or public colleges in the City of New York. (1961)

The Serena Hand Savage Memorial Scholarship was established in memory of Serena Hand Savage of the Class of 1922 by her friends. The income from a fund of \$22,952 is awarded to a member of the

junior class who shows great distinction of scholarship and character and who needs financial assistance. This scholarship may be renewed in the senior year. (1951)

The Constance Schaar Scholarship Fund, now totalling \$7,659, was established in 1964 by her parents and friends in memory of Constance Schaar of the Class of 1963. The Class of 1963 added their reunion gift in 1964 to this fund. (1964)

The Frances Marion Simpson Scholarships, carrying up to full tuition and tenable for four years, were founded in memory of Frances Simpson Pfahler of the Class of 1906 by Justice Alexander Simpson, Jr., by gifts amounting to \$20,682. One scholarship is awarded each year to a member of the entering freshman class who cannot meet in full the fees of the College. In awarding these scholarships first preference is given to residents of Philadelphia and Montgomery Counties who have been prepared in the public schools of these counties or at home by parents or guardians; thereafter, under the same conditions, to residents of other counties of Pennsylvania, and, in special cases, to candidates from other localities. Holders of these scholarships are expected to repay the sums advanced to them. If they become able during their college course to pay the tuition fees in whole or in part, they are required to do so. (1912)

The Mary Williams Sherman Memorial Scholarship Fund, now amounting to \$4,150, was established by bequest of Bertha Williams of Princeton, New Jersey. (1942)

The Shippen Huidekoper Scholarship Fund of \$5,000 was established by an anonymous gift. The income is awarded annually on the nomination of the President. (1936)

The Gertrude Slaughter Scholarship Fund was established by bequest of \$19,909 by Gertrude Taylor Slaughter of the Class of 1893. The income on this fund is to be used for undergraduate scholarships, preferably to students of Greek or Latin. (1964)

The Anna Margaret Sloan and Mary Sloan Scholarships were founded by bequest of Mary Sloan of Pittsburgh. The income from this fund of \$16,858 is awarded annually to students majoring in Philosophy or Psychology. (1942)

The Cordelia Clark Sowden Scholarship Fund was established by a bequest of \$15,000 from the Estate of Helen C. Sowden. The income from this fund is used for scholarships to be awarded by Bryn Mawr College under the rules in effect at the time of the award. (1957)

The Amy Sussman Steinhart Scholarship, carrying full tuition, was founded in memory of Amy Sussman Steinhart of the Class of 1902 by her family and friends. The income from gifts now totalling \$33,652 is awarded annually to an entering student from one of the states on the west coast. (1932)

The Mary E. Stevens Scholarship Fund was given in memory of Mary E. Stevens by former pupils of The Stevens School in Germantown. The income on this fund of \$3,188 is awarded annually to a junior. (1897)

The Summerfield Foundation Scholarship was established by a gift from the Solon E. Summerfield Foundation. The income from this fund, which now totals \$10,000, is to be used to assist able students who need financial help to continue their studies. (1958)

The Mary Hamilton Swindler Scholarship was established in honor of Mary Hamilton Swindler, Professor of Classical Archaeology from 1931 to 1949, by a group of friends and former students, by gifts totalling \$8,493. The income from this fund is used for a scholarship for the study of Archaeology. (1950)

The Elizabeth P. Taylor Scholarship Fund, now amounting to \$10,660, was established by a bequest from Elizabeth P. Taylor of the Class of 1921. (1961)

The Ethel Vick Wallace Townsend Memorial Fund was established by Elbert S. Townsend in memory of his wife, Ethel Vick Wallace Townsend of the Class of 1908. The income on his fund, held by the Buffalo Foundation, is to be used for undergraduate scholarships. (1967)

The Trustees' Scholarships, varying in amount up to full tuition, and tenable for four years, are made available by the Trustees of Bryn Mawr College for students prepared in the high schools of Philadelphia and its suburbs. Two of these scholarships are awarded annually

to candidates who have received all their preparation for entrance in Philadelphia high schools and are recommended by the Board of Public Education of Philadelphia; two are awarded annually to candidates who have received all their preparation for entrance in public schools in the suburbs of Philadelphia and are awarded by the College after consultation with the principals of the schools presenting candidates. The amount of the award varies according to the need of the applicant. (1895)

Two or sometimes three of these scholarships are supported by the income from *The Jacob Fussell Byrnes and Mary Byrnes Fund*, which was established in memory of her mother and father by a bequest of \$51,513 under the will of Esther Fussell Byrnes. (1948)

The Julia Ward Scholarship Fund was established by a gift of \$7,075 for a scholarship in memory of Julia Ward of the Class of 1923 by one of her friends and by additional gifts from others. The income on this fund which now amounts to \$25,046 is to be used for undergraduate scholarships. (1962)

The Eliza Jane Watson Scholarship Fund was established by gifts of \$25,000 from the John Jay and Eliza Jane Watson Foundation. The income from this fund is to be used to assist one or more students as selected by the College to meet the cost of tuition. (1964)

The Elizabeth Wilson White Memorial Scholarship was founded in memory of Elizabeth Wilson White by a gift of \$7,513 by Thomas Raeburn White. It is awarded annually by the President. (1923)

The Thomas Raeburn White Scholarships, established by a gift of \$25,000, made by Amos and Dorothy Peaslee on April 6, 1964 in honor of Thomas Raeburn White, Trustee of the College from 1907 until his death in 1959, Counsel to the College throughout these years and President of the Trustees from 1956 to 1959. The income from this fund is to be used for scholarships to undergraduate students studying foreign languages, with preference given to those students who will be studying abroad. (1964)

The Mary R. G. Williams Scholarship Fund was established from the Fund for Promoting College Education for Women established by bequest of Mary R. G. Williams. The income from this fund of \$5,694

will be used for emergency grants for students who are paying their own way through college. (1957)

The Mary Peabody Williamson Scholarship was founded by bequest of \$1,000 by Mary Peabody Williamson of the Class of 1903. (1939)

The Marion H. Curtin Winsor Memorial Scholarship was established by a bequest of \$10,000 in the will of Mary Winsor, in memory of her mother. The income on this fund is to be awarded to a resident Negro student. (1960)

The Mary Winsor Scholarship in Archaeology was established by a bequest of \$3,000 under the will of Mary Winsor. The income only is to be used. (1960)

The Ellen Winsor and Rebecca Winsor Evans Memorial Scholarship Fund was established by a bequest of \$5,230 in the will of Rebecca Winsor Evans. The scholarship is to be awarded to a resident Negro student. (1962)

The Rebecca Winsor Evans and Ellen Winsor Memorial Scholarship Fund was established by a bequest of \$5,230 in the will of Ellen Winsor. The scholarship is to be awarded to a resident Negro student. (1962)

The Lila M. Wright Memorial Scholarship was founded in memory of Lila M. Wright by gifts totalling \$2,987 from the alumnae of Miss Wright's School of Bryn Mawr. (1934)

The Georgie W. Yeatman Scholarship was founded by bequest of \$1,000 under the will of Georgie W. Yeatman of Philadelphia. (1941)

Scholarships for Foreign Students

The Bryn Mawr Canadian Scholarship will be raised and awarded each year by Bryn Mawr alumnae living in Canada. The scholarship, varying in amount, will be awarded to a Canadian student entering either the undergraduate or graduate school. (1965)

The Chinese Scholarship comes in part from the annual income of a fund now totalling \$30,027 established by a group of alumnae and friends of the College in order to meet all or part of the expenses of a

Chinese student during her four undergraduate years at Bryn Mawr College. (1917)

The Marguerite N. Farley Scholarships for foreign students were established by bequest of Marguerite N. Farley. The income from a fund of \$331, 425 will be used for scholarships for foreign graduate and undergraduate students covering part or all of their expenses for tuition and residence. (1956)

The Margaret Y. Kent Scholarship Fund, Class of 1908, was established by bequest of Margaret Y. Kent of the Class of 1908. The income from the fund of \$7,000 is to be used to provide scholarship assistance to foreign students. (1967)

The Special Trustees' Scholarship is awarded every four years to a foreign student. It carries free tuition and is tenable for four years. The scholarship for students from foreign countries was first offered by the Trustees in 1940.

The Undergraduate Scholarship, raised by the Undergraduate Association and awarded by the Association in consultation with the Director of Admissions, is awarded each year to a foreign student entering Bryn Mawr. The award is variable in amount but covers as a minimum the cost of tuition. (1938)

Prizes and Academic Awards

The following awards, fellowships, scholarships and prizes are in the award of the Faculty and are given solely on the basis of academic distinction and achievement.

The Bryn Mawr European Fellowship, value \$1,000, has been awarded each year since the first class was graduated in 1889. It is given for merit to a member of the graduating class, to be applied toward the expenses of one year's study at some foreign university. The holder of this fellowship receives in addition an *Elizabeth S. Shippen Scholarship for Foreign Study*.

The Commonwealth Africa Travelling Scholarship was established by a grant of \$50,000 from the Thorncroft Fund, Inc. at the request of Helen and Geoffrey de Freitas. The income from this fund will be

used to send, for at least six months, a Bryn Mawr graduate to a university or college in Commonwealth Africa, or former British colony in Africa, to teach or to study, with a view to contributing to mutual understanding and the furtherance of scholarship. (1965)

The Gertrude Slaughter Fellowship was established by a bequest of \$50,000 in the will of Gertrude Taylor Slaughter of the Class of 1893. The Fellowship is to be awarded to a member of the graduating class for excellence in scholarship to be used for a year's study in the United States or abroad. (1964)

The Maria L. Eastman Brooke Hall Memorial Scholarship was founded in memory of Maria L. Eastman, Principal of Brooke Hall School for Girls, Media, Pennsylvania, by gifts totalling \$3,310 from the alumnae and former pupils of the school. It is awarded annually to the member of the junior class with the highest general average and is held during the senior year. Transfer students who enter Bryn Mawr as members of the junior class are not eligible for this award. (1901)

The Charles S. Hinchman Memorial Scholarship was founded in memory of the late Charles S. Hinchman of Philadelphia by a gift of \$12,000 made by his family. It is awarded annually to a member of the junior class for work of special excellence in her major subject and is held during the senior year. (1917)

The Sheelah Kilroy Memorial Scholarships in English were founded in memory of their daughter Sheelah, by Dr. and Mrs. Philip Kilroy by a gift of \$5,000. These scholarships are awarded annually on the recommendation of the Department of English as follows: to a student for excellence of work in second-year or advanced courses in English, and to the student in the first-year course in English Composition who writes the best essay during the year. (1919)

The Elizabeth S. Shippen Scholarships were founded by two bequests of \$5,000 each under the will of Elizabeth S. Shippen of Philadelphia. Three scholarships are awarded annually, one to the member of the senior class who receives the Bryn Mawr European Fellowship, and two to members of the junior class, as follows: 1. *The Shippen Scholarship in Science*, to a student whose major subject is Biology, Chemistry, Geology or Physics; 2. *The Shippen Scholarship in Foreign Languages*, to one whose major subject is French, German, Greek, Italian,

Latin, Russian or Spanish. To be eligible for either of these two scholarships a student must have completed at least one semester of the second-year course in her major subject. Neither may be held by the winner of the Charles S. Hinchman Memorial Scholarship. Work in elementary courses will not be considered in awarding the scholarship in foreign languages; 3. *The Shippen Scholarship for Foreign Study* (See European Fellowship, page 150). (1915)

The Academy of American Poets Poetry Prize of \$100 has been awarded each year for five years to the student who submits to the Department of English the best poem or group of poems. The award, given by the Academy of American Poets, was first made in 1957.

The Bain-Swiggett Poetry Prize was established by a gift of \$1,000 from Mr. and Mrs. Glen Levin Swiggett. This prize is to be awarded annually by a committee of the Faculty on the basis of work submitted. The income only is to be used. (1958)

The Hester Ann Corner Prize for distinction in literature was established in memory of Hester Ann Corner of the Class of 1942 by gifts totalling \$2,625 from her classmates and friends. The award is made annually to a junior or senior on the recommendation of a committee composed of the chairmen of the Departments of English and of classical and modern foreign languages. (1950)

The Katherine Fullerton Gerould Memorial Prize was founded in 1946 by a gift of \$1,300 from a group of alumnae, many of whom were students of Mrs. Gerould when she taught at Bryn Mawr from 1901-10. This year the fund was increased by bequest of \$2,400 by one of her former students. It is awarded by a special committee to a student who shows evidence of creative ability in the fields of informal essay, short story, longer narrative or verse. (1946)

The Elizabeth Duane Gillespie Fund for Scholarships in American History was founded by a gift from the National Society of Colonial Dames of America in the Commonwealth of Pennsylvania in memory of Elizabeth Duane Gillespie. Two prizes are awarded annually on nomination by the Department of History, one to a member of the sophomore or junior class for work of distinction in American History, a second to a student doing advanced work in American History for

an essay written in connection with that work. The income from this fund of \$1,970 has been supplemented since 1955 by annual gifts from the Society. (1903)

The Helen Taft Manning Essay Prize in History was established in honor of Helen Taft Manning, in the year of her retirement, by her class—1915. The income on a fund of \$2,600 is to be awarded as the Department of History may determine. (1957)

The *Alexandra Peschka Prize* was established in memory of Alexandra Peschka of the Class of 1964 by gifts from her family and friends. The prize of \$100 is awarded annually to a member of the freshman or sophomore class for the best piece of imaginative writing in prose. The award will be made by a committee of the Department of English who will consult the terms stated in the deed of gift. (1968)

The Jeanne Quistgaard Memorial Prize was given by the Class of 1938 in memory of their classmate, Jeanne Quistgaard. The income on this fund of \$690 may be awarded every two years to a student in Economics. Awarded in 1965. (1938)

The Charlotte Angas Scott Prize in Mathematics. A prize to be awarded annually to an undergraduate on the recommendation of the Department of Mathematics was established by an anonymous gift in memory of Charlotte Angas Scott, Professor of Mathematics and a member of the faculty of Bryn Mawr College from 1885-1924. The income only from this gift is to be used. (1961)

The M. Carey Thomas Essay Prize is awarded annually to a member of the senior class for distinction in writing. The award is made by the Department of English for either creative or critical writing. It was established in memory of Miss Thomas by her niece, Millicent Carey McIntosh of the Class of 1920. (1943)

The Emma Osborn Thompson Prize in Geology was founded by bequest of Emma Osborn Thompson of the Class of 1904. From the income on the bequest of \$500 a prize is to be awarded from time to time to a student in Geology. (1963)

The Esther Walker Award was founded by the bequest of \$1,000 from William John Walker in memory of his sister, Esther Walker, of the

Class of 1910. It may be given annually to a member of the senior class who in the judgment of the Faculty shall have displayed the greatest proficiency in the study of living conditions of Northern Negroes. (1940)

The Anna Pell Wheeler Prize in Mathematics. A prize to be awarded annually to an undergraduate on the recommendation of the Department of Mathematics was established by an anonymous gift in honor of Anna Pell Wheeler, Professor Emeritus of Mathematics and a member of the faculty of Bryn Mawr College until her death in 1966. The income only from this gift is to be used. (1961)

Scholarships for Medical Study

The following scholarships may be awarded to seniors intending to study medicine, after their acceptance by a medical school, or to graduates of Bryn Mawr intending or continuing to pursue medical education. Applications for the scholarships should be made to the Dean of the College before April 15 preceding the academic year in which the scholarship is to be held. Applications for renewal of scholarships must be accompanied by letters of recommendation from instructors in the medical school.

The Linda B. Lange Fund was founded by bequest of \$30,000 under the will of Linda B. Lange of the Class of 1903. The income from this fund will provide the Anna Howard Shaw Scholarship in Medicine and Public Health, awarded on recommendation of the President and Faculty to a member of the graduating class or a graduate of the College for the pursuit, during an uninterrupted succession of years, of studies leading to the degrees of M.D. and Doctor of Public Health. The award may be continued until the degrees are obtained. (1948)

The Hannah E. Longshore Memorial Medical Scholarship was founded by Mrs. Rudolph Blankenburg in memory of her mother by a gift of \$10,000. The scholarship is awarded by a committee of the Faculty to a student who has been accepted by a medical school. It may be renewed for each year of medical study. (1921)

The Jane V. Myers Memorial Medical Scholarship Fund of \$10,000 was established by Mrs. Rudolph Blankenburg in memory of her aunt.

The scholarship is awarded by a committee of the Faculty to a student who has been accepted by a medical school. It may be renewed for each year of medical study. (1921)

The Harriet Judd Sartain Memorial Scholarship Fund was founded by bequest of \$21,033 under the will of Paul J. Sartain. The income from this fund is to establish a scholarship which is awarded to a member of the graduating class who in the judgment of the Faculty needs and is deserving of assistance for the study of medicine. This scholarship may be continued for the duration of her medical course. (1948)

Student Employment

Students may obtain employment such as clerical and library work, typing, reading aloud, child care and waitressing through the Bureau of Recommendations, Taylor Hall. In conducting this Bureau, the College offers an employment service for permanent, temporary and part-time positions to its alumnae and former students as well as to those in college. It also offers assistance in choosing a vocation. Students registering with the Bureau will be informed of openings in the kind of work they have requested.

The Bureau also acts as a clearing house for letters of recommendation for its registrants; these letters will be sent upon request to prospective employers and other agencies for summer work for undergraduates or for full or part-time employment for alumnae and former students.

Students of foreign citizenship wishing employment should consult the Adviser to Foreign Students whose office is in Dalton Hall.

Loan Funds

Bryn Mawr College administers two kinds of loan programs. The first consists of three funds established through the generosity of alumnae and friends of the College. Applications for loans from the three funds must be accompanied by the Parents' Confidential Statement prepared by the College Scholarship Service of the College Entrance Examination Board.

The Students' Loan Fund of the Alumnae Association of Bryn Mawr College was founded by the Class of 1890 for the use of students who need to borrow money in order to continue their college work and for the purpose of receiving contributions, no matter how small, from those who are interested in helping students to obtain an education. The fund is managed by the Alumnae Scholarships and Loan Fund Committee.

Loans may be used for any purpose approved by the committee, but not more than \$500 may be borrowed by a student in any one year, except under extraordinary circumstances. The total for four years must not exceed \$1,500. Students who wish loans may obtain from the Dean or the Alumnae Office the necessary blanks which must be accompanied by a letter of recommendation from the Dean. As a rule, money is not loaned to freshmen or to students in their first semester of graduate work.

While the student is in college no interest is charged, but she may reduce the principal of the loan if she so desires. From September 1, 1964, the interest rate is three per cent, to be paid after the student leaves college. The entire principal must be repaid within five years from the time the student leaves college at the rate of twenty per cent each year.

Contributions to the Loan Fund may be sent to the Chairman of Scholarships and Loan Fund, Bryn Mawr College Alumnae Association, Bryn Mawr, Pennsylvania.

The Mary Hill Swope Loan Fund was established June 1, 1945, by a gift of the late Mrs. Gerard Swope (Mary Hill, A.B. 1896) under the following conditions:

To assist in the education of young women irrespective of color or creed attending Bryn Mawr College, the income of the fund to be loaned to students in the following manner:

a. The following order of preference shall be followed in awarding such loans—to students coming from New Jersey, to students coming from Missouri, to students coming from any other location who have had not less than one year of residence at the College.

b. The loans in the above order of preference, and in the following manner, shall be awarded by the President of Bryn Mawr College, or by a committee appointed by her from time to time.

c. Applicants for loans shall be considered not only from the standpoint of academic attainment and financial need, but also from the standpoint of character and personal qualifications for deriving the greatest good from a continuation of their studies.

d. These loans shall be used primarily to enable the exceptional student to continue her studies, which otherwise would be prevented through lack of means.

e. Except under extraordinary circumstances, the maximum amount which may be borrowed annually is \$500. No interest is charged while the student is in college. From September 1, 1964, the interest rate is three per cent, to be paid after the student leaves college. The principal is to be repaid within five years from the time the student graduates or leaves Bryn Mawr at the rate of twenty per cent each year.

The Gerard and Mary Hill Swope Loan Fund was established in 1962 under the following conditions:

a. The \$200 loans required of scholarship students may be borrowed from this fund. Applications must be submitted simultaneously with scholarship applications.

b. Non-scholarship students and graduate students are also eligible to apply for loans from this fund.

c. The maximum amount which can be borrowed for any given academic year is \$500.

d. While the student is in college or graduate school no interest is charged, but she may reduce the principal of the loan if she so desires. From September 1, 1964, the interest rate is three per cent, to be paid after the student leaves college. The entire principal must be repaid

within five years from the time the student leaves college at the rate of twenty per cent each year.

e. Loans are awarded by a committee consisting of the Dean of the College (*Chairman*), the Dean of the Graduate School and the Director of Admissions.

The second kind of loan program administered by the College, is based on government funds made available through *The National Defense Education Act (NDEA) Student Loan Program*. Applications for loans must be accompanied by the Parents' Confidential Statement prepared by the College Scholarship Service of the College Entrance Examination Board. Borrowers must subscribe in writing to an oath or affirmation of allegiance to the United States of America. Under the NDEA Student Loan Program, students may borrow up to \$1,000 each year, depending on need, and all loans from this source may not exceed a total of \$5,000.

Students who, upon graduation, teach on a full-time basis in public or private non-profit elementary and secondary schools and in institutions of higher education are allowed cancellation of their debts at the rate of ten per cent for each year of teaching up to a maximum cancellation of fifty per cent of the total loan.

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All alumnae officers and representatives will be glad to give general information about the College.

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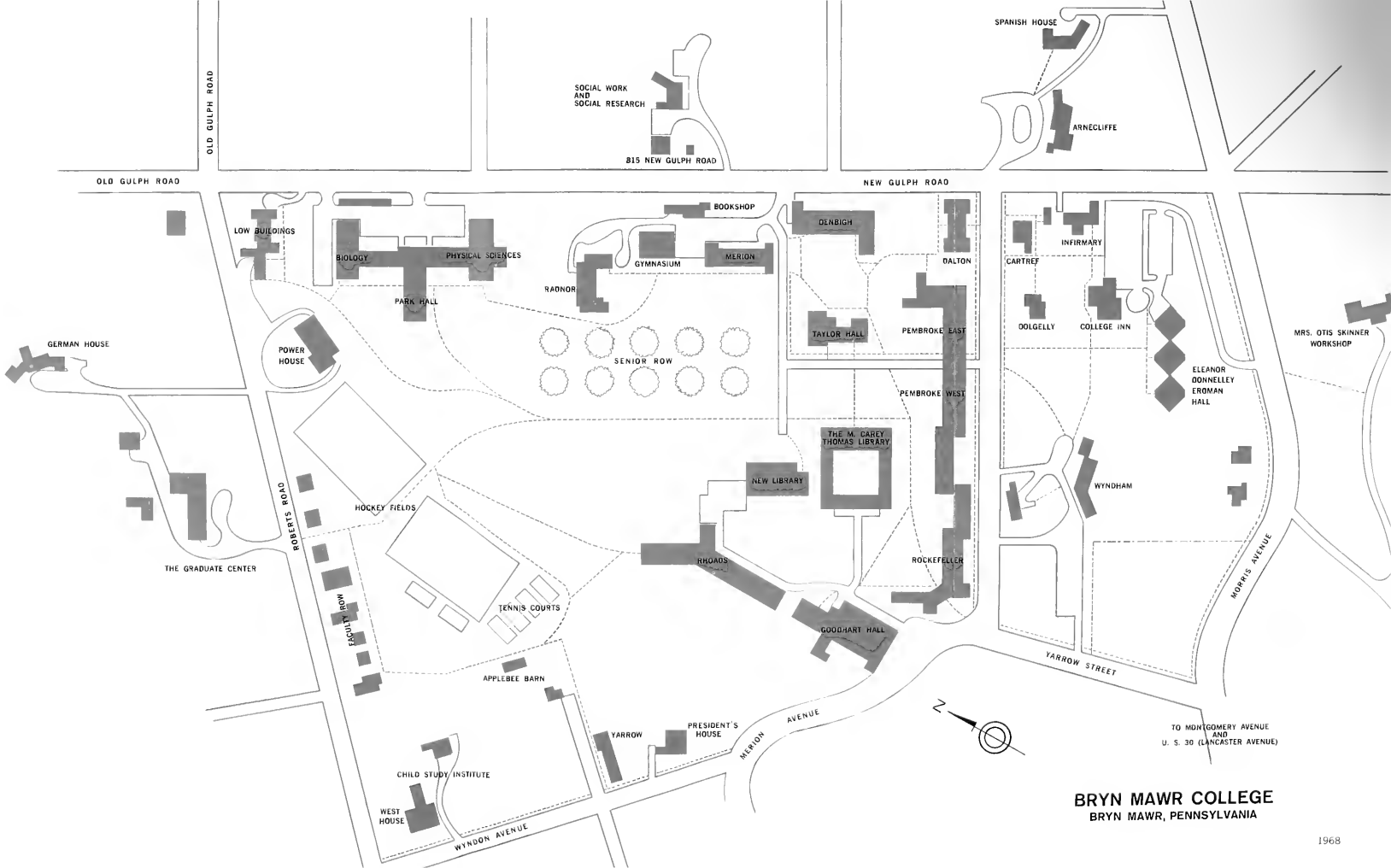
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BRYN MAWR COLLEGE
BRYN MAWR, PENNSYLVANIA

Directions to Bryn Mawr

Bryn Mawr College is located approximately eleven miles west of Philadelphia and nine miles east of Paoli.

By air: From the Philadelphia International Airport take the airport limousine to 30th Street Station in Philadelphia and from there the Paoli Local to Bryn Mawr, or take a taxi directly to Bryn Mawr from the airport, a distance of 14 miles.

By automobile: From the east or west take U. S. 30 or the Pennsylvania Turnpike. From the Valley Forge Exit of the Turnpike, take the Schuylkill Expressway (Pa. #43—Interstate #76), turning right at exit number 36, Pa. #320, Gulph Mills, which is 3.5 miles east of the toll gate; continue into Montgomery Avenue to the town of Bryn Mawr, a distance of 4 miles from the Expressway. Turn left at the traffic light at the intersection of Morris and Montgomery Avenues and take Morris Avenue to the next traffic light. Turn left on to New Gulph Road. Visitors may use the College parking lot, entering at Merion Gate, which is directly opposite 815 New Gulph Road.

By bus: All Greyhound buses arrive at the Philadelphia terminal at 17th and Market Streets, adjoining Suburban Station. Trailways buses arrive at 13th and Arch Streets, three blocks from Suburban Station. Take the Paoli Local from Suburban Station to Bryn Mawr.

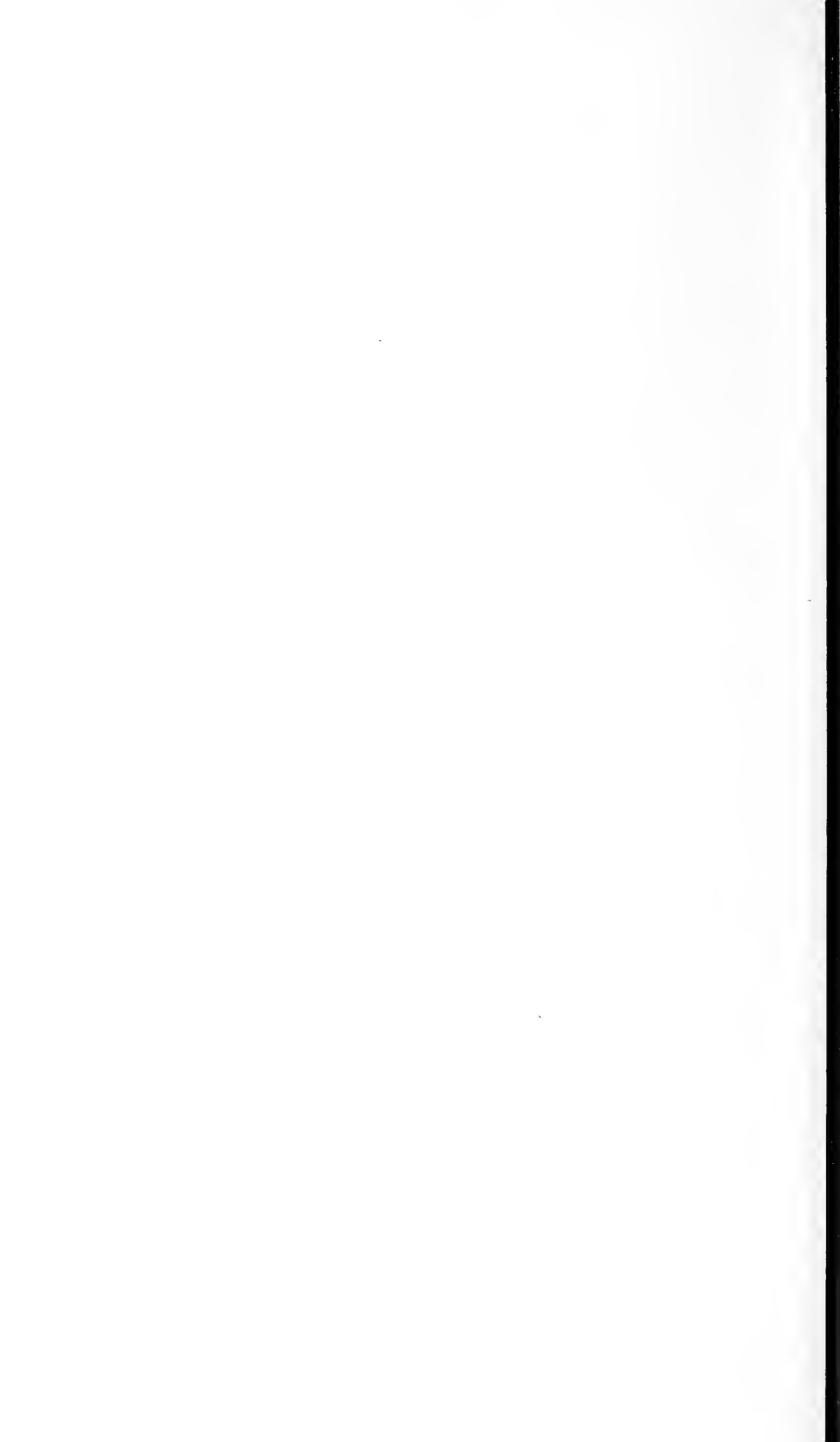
By railroad: Connections from the east, north and south are best made from 30th Street Station, Philadelphia, on the Paoli Local of the Pennsylvania Railroad, which leaves the station every thirty minutes. Those coming by rail from the west are advised to leave the train at Paoli (rather than North Philadelphia) and take the Local from Paoli to Bryn Mawr.

To walk to the College from the Bryn Mawr Station, go one block to the traffic light at the intersection of Morris and Montgomery Avenues, cross Montgomery on to Morris and take the next left on to Yarrow Street, which leads directly to the campus.

BRYN MAWR

Undergraduate Courses

1968-69



10A

